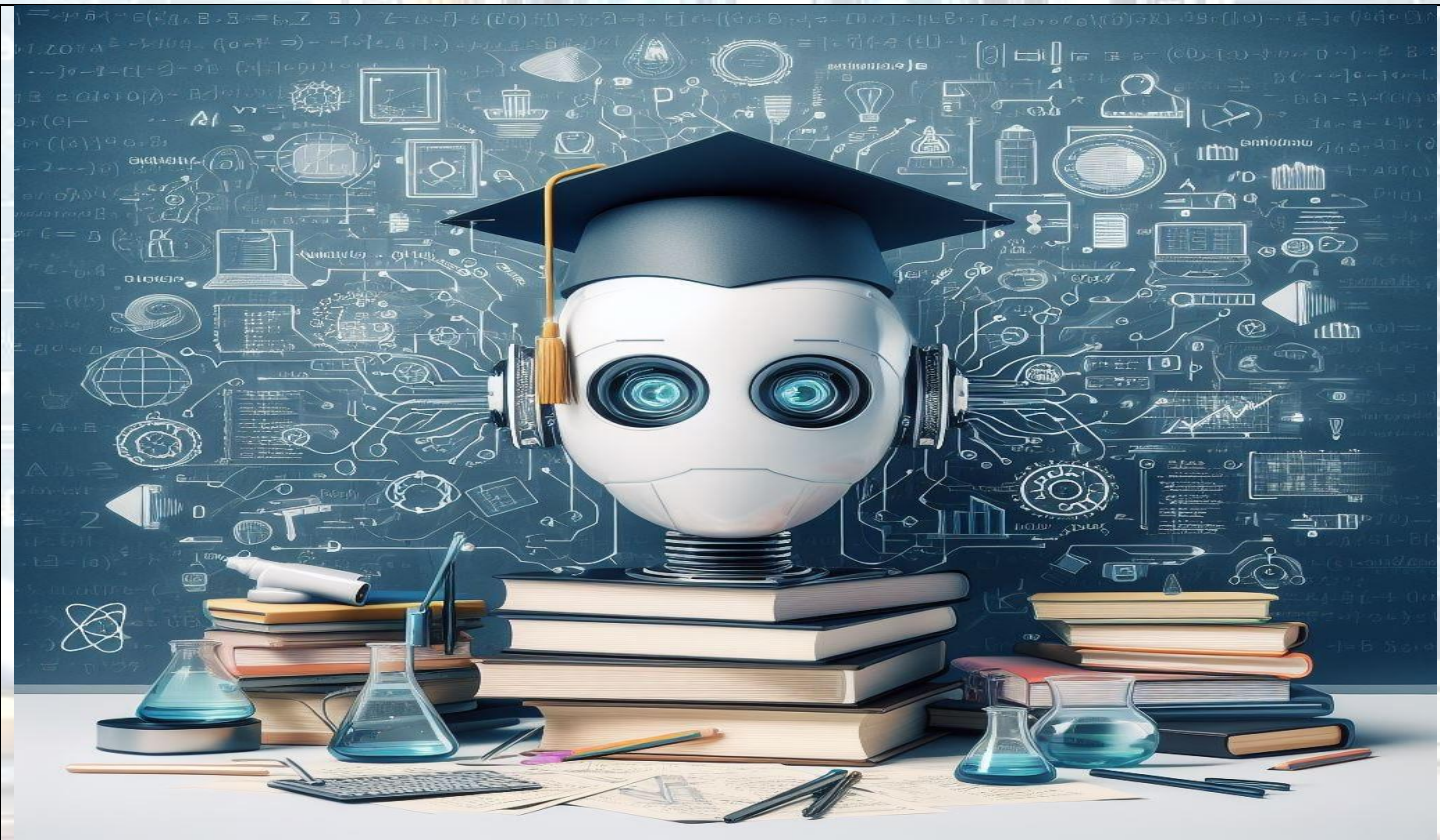


# Artificial Intelligence and Technology in Academia and Profession (Book of Abstracts)

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## Preface

This book includes the abstracts of all the papers presented at the International Conference on Artificial Intelligence and Technology in Academia and Profession, which was held December 25-26, 2024, and was organized by the Center for Academic & Professional Career Development and Research (CAPCDR). A full conference program is available before the relevant abstracts.

According to CAPCDR's Publication Policy, papers presented during this conference will be considered for inclusion in one of CAPCDR's many publications.

This abstract book provides members of CAPCDR and other academics around the world with a resource for discovering colleagues and additional research relevant to their work. This purpose is in congruence with the association's overall mission. CAPCDR was established in 2021 as an independent academic organization with the mission to become a forum where academics and researchers from all over the world could meet to exchange ideas on their research and consider the future developments of their fields of study.

We hope that through CAPCDR conferences and publications, we will become a place where academics and researchers from all over the world regularly meet to discuss the developments of their discipline and present their work.

We want to thank all the participants, the members of the organizing and academic committees, and, most importantly, the CAPCDR administration staff for putting this conference and its subsequent publications together. Specific individuals are listed on the following page.

## Editorial Board

## Welcome Message

It is my great pleasure to welcome you all to our CAPCDR Conference, the eighth conference being held online. On behalf of the conference organizers, I would like to thank you all for your participation.

I want to thank all of you, especially those who were present in today's plenary session and other sessions and who have contributed in different ways since the beginning of this organization. As a result, CAPCDR has been moving towards success in a very short period. As you know, CAPCDR started its activities in a very short time and has the participation of scholars from more than 90 countries. So far, we have reached more than 600 paper presentations. Due to a lack of resources, we are not able to give many presentation opportunities, but we do not only accept the results of the abstract review but also consider several other factors, mainly our young generation may get motivated by research and publications. You know that our subcontinent lags far behind the developed world in terms of publications and research, although we have a great tradition of education and educational institutions. But we are lagging far behind simply because of the lack of proper opportunities, which we all know. I hope CAPCDR will be able to achieve ultimate success if we get such support from you in the future.

Thank you all again from the bottom of my heart.

**Professor Dr Kazi Abdul Mannan**  
Chairperson.  
Conference Organizing Committee



## About CAPCDR

The Center for Academic & Professional Career Development and Research (CAPCDR) is a consortium of researchers and policymakers drawn from national and international universities, institutes, and organizations. Currently based in Asia, CAPCDR is shaping up to be the largest such group, focusing specifically on issues related to academic careers, professional development, and research.

The CAPCDR works as an academic and policy think tank by engaging national and international experts from academics, practitioners, and policymakers in a broad range of research areas. In the changing global environment of academic research and policy-making, the role of CAPCDR will be of immense help to the various stakeholders. Many developing countries cannot afford to miss the opportunity to harness the knowledge revolution of the present era.

**G M Omar Faruque Chowdhury**

Secretary-General

Center for Academic & Professional Career Development and Research (CAPCDR)

## About 8<sup>th</sup> CAPCDR Conference

The 2024 8th International Conference on Artificial Intelligence and Technology in Academia and Profession (AITAP 2024) will be held at Virtual Platform from December 25 to 26, 2024.

Artificial Intelligence (AI) and machine learning technologies, which are essential among developing technologies, have rapidly evolved and started to be used in many fields in recent years. These technologies can create outputs similar to those produced by humans and can significantly reduce people's energy and time. The concept of AI generally encompasses a set of technologies and techniques related to the ability of computer systems to perform tasks that require human intelligence. In other words, AI is the simulation of human intelligence in machines programmed to think and act like humans. AI technologies appear as examples of a kind of 'datafication' process that affects society as a whole. Among the sub-areas of these technologies are machine learning, supervised learning, unsupervised learning, natural language generation, and natural language processing (NLP).

### Key Highlights

Theme: "Artificial Intelligence and Technology in Academia and Profession"

Sub-themes: The conference encompasses a range of critical sub-themes but not limited to;

Education  
Arts  
Social Science  
Business  
Science and Technology  
Public Health  
Environmental Health, Climate Change, and Planetary Health  
Medical Education, Ethics & Health Law  
Dental Public Health

### Why Attend?

Learn from renowned experts and researchers about the latest developments, research findings, and innovative solutions in the field.

Connect with a diverse community of professionals, forging meaningful collaborations and partnerships.

Showcase your research through oral presentations or poster sessions, contributing to the collective understanding of public health issues.

Selected abstracts will be published in the conference book of abstracts.

Finally, selected articles will be published in relevant prestigious scientific journals.



### Who can Attend?

The International Conference on Public Health welcomes a diverse range of participants who are engaged or interested in the fields of social science, business, education, public health, and its various dimensions. This includes, but is not limited to:

**Researchers and Scholars:** Academics, researchers, and scholars from various disciplines related to public health, epidemiology, medicine, social sciences, environmental sciences, and more.

**Public Health Professionals:** Public health practitioners, professionals working in healthcare settings, policymakers, and administrators involved in public health programs and initiatives.

**Students:** Undergraduate, graduate, and postgraduate students pursuing degrees in public health, medicine, nursing, social work, and related fields.

**Healthcare Providers:** Medical doctors, nurses, allied health professionals, and clinicians interested in the latest developments and research in public health.

**Government and NGO Representatives:** Representatives from government health departments, non-governmental organizations (NGOs), and international health organizations involved in public health efforts.

**Health Educators:** Professionals engaged in health education, health communication, and health promotion.

**Researchers:** Researchers and academics focused on specific sub-themes of the conference, such as mental health, infectious diseases, maternal and child health, environmental health, and more.

**Policy Makers:** Policymakers at local, regional, and national levels seeking insights into evidence-based strategies for addressing public health challenges.

**Industry Representatives:** Representatives from industries related to healthcare, pharmaceuticals, medical devices, and technology interested in public health trends and developments.

**Community Leaders:** Community leaders, activists, and advocates who are involved in public health awareness campaigns and community health initiatives.

**International Participants:** Participants from around the world interested in global public health challenges and solutions.

The conference fosters interdisciplinary discussions, networking, and knowledge sharing among participants from various backgrounds. Whether you are a seasoned professional, an emerging researcher, a dedicated student, or anyone interested in academia and profession, this conference provides an inclusive and enriching platform to engage in meaningful dialogue and contribute to advancing the field.

**Dr Khandaker Mursheda Farhana**

Director

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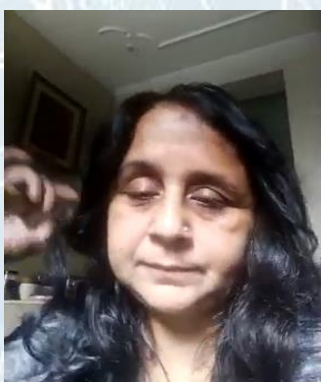




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**Dr Vijay S Jariwala**  
Associate Professor  
Sardar Patel University, Gujarat  
India



**Dr Jyotsana Shukla**  
Associate Professor  
Integral University  
India



**Dr Khandaker Mursheda Farhana**  
Associate Professor  
Shanto-Mariam University of Creative Technology  
Bangladesh



**Dr Rachana R. Pachori**  
Associate Professor  
Rajasthan Aryan Mahavidyalaya  
India





**Dr Kamble Vidhin Sundar**  
Associate Professor  
Sangola College, Sangola  
India



**Dr Monika Panchani**  
Associate Professor  
VGC Mandi. H.P.  
India



**Dr R. Suyam Praba**  
Associate Professor  
Sri Krishna College of Engineering and Technology  
India



**Dr K. Manimekalai**  
Associate Professor  
Sri GVG Visalakshi College for Women  
**India**



**Dr Marjohn V. Anislag**  
Associate Professor  
Surigao Del Norte State University-Mainit Campus in Magpayang  
Mainit, Surigao Del Norte  
**Philippines**





**Dr Hina Jignesh Chokshi**

Associate Professor-Head of Department  
Parul Institute of Computer Applications  
Parul University, Vadodara, Gujarat  
**India**



**Dr Sankarsan Panda**

Associate Professor  
Acharya Shri Mahapragya Institute of Excellence  
**India**



**Dr Nidhi Goenka**

Associate Professor  
ISBM University  
**India**

## SESSION CO-CHAIR

ROOM	CO-CHAIR
I-A	<b>Dr Md. Ruhul Amin</b> Associate Professor Comilla University Cumilla Bangladesh
II-B	<b>Prof. Dr Rajshree Rathod</b> Tilak College of Education Pune Maharashtra India
III-A	<b>Dr Khandaker Mursheda Farhana</b> Associate Professor Shanto-Mariam University of Creative Technology Bangladesh
IV-B	<b>Dr Khandaker Mursheda Farhana</b> Associate Professor Shanto-Mariam University of Creative Technology Bangladesh
V-A	<b>Prof. Dr Rajasekaran S</b> University of Technology and Applied Sciences, Ibr Oman
VI-B	<b>Prof. Dr Vikas Somani</b> Sangam University India
VII-A	<b>Dr Khandaker Mursheda Farhana</b> Associate Professor Shanto-Mariam University of Creative Technology Bangladesh
VIII-B	<b>Prof. Dr Myo Kywe</b> Taxila University Yangon Myanmar



- IX-A Prof. Dr Sandhya Deepika**  
**India**
- XI-B Dr Khandaker Mursheda Farhana**  
Associate Professor  
Shanto-Mariam University of Creative Technology  
**Bangladesh**
- XII-B Dr Prajakta Kailas Khule**  
SVERI's College of Pharmacy  
Pandharpur  
**India**
- XIII-A Prof. Dr Vrunal Vishwasrao More**  
SVERI's College of Pharmacy  
**India**
- XIV-B Dr S. Selvin**  
Principal  
RVS College of Education, Dindigul, Tamilnadu- 624005
- XV-A Prof. Abu Noman Faruq Ahmmed**  
Sher-e-Bangla Agricultural University  
**Bangladesh**
- XVI-B Dr Abhishek Rajeshkumar Mehta**  
Parul Institute of Engineering and Technology – MCA  
Parul University  
**India**
- XVII-A Dr Ishfaq Ahmad Malik**  
Associate Professor  
Debre Berhan University  
**Ethiopia**

**PROGRAM SCHEDULE**

**International Conference**  
**on**  
**Artificial Intelligence and Technology in Academia and**  
**Profession**

**December 25-26, 2024**

**Venue: Zoom Platform**



## PARALLEL SESSIONS

DAY ONE  
25<sup>th</sup> December 2025 (Wednesday)  
ROOM: I-A

Session ChairTimeSession Members**Dr J. Suresh Kumar**

Associate Professor  
St. Joseph University, Nagaland  
India

8:00-10:00 am (India)

**Mr. Rakshak Bharti****Ms. Urvija Khatri**

Assistant Professor  
Kalinga University, Raipur  
Author ID: 25262024039  
India

The Impact of Artificial Intelligence on  
Professional Skill Development and Career  
Progression

**Dr Md. Ruhul Amin****Co-Chair****Ms. Urvija Khatri****Mr. Rakshak Bharti**

Assistant Professor  
Kalinga University, Raipur  
Author ID: 25262024042  
India

The Transformative Role of Artificial  
Intelligence in Academia and Professional  
Spheres

**Alpana Sharma et al**

Assistant Professor  
Kalinga University, Naya Raipur  
Author ID: 25262024100  
India

The Integration of AI in Teacher  
Leadership: Ethical and Practical  
Considerations

**M R Ramesh**

Indira Gandhi Centre for Atomic  
Research  
Author ID: 25262024004  
India

Artificial Intelligence and Technology in  
Academia and Profession: Impacts and  
Implications for Education in NEP-2020

**Amit Anand**

Research Scholars  
Lalit Narayan Mithila University  
Author ID: 25262024016  
India

An Assessment of Women Education In  
India

**Hope Jacob Tama et al**

Taraba State University Jalingo  
Author ID: 25262024090  
India

Effects of technological innovations on  
economic growth in Nigeria

Join Zoom Meeting: <https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6yvtmaO0efzO7OP9arBbiO4.1>

Meeting ID: 858 2099 9056

Passcode: 346070

Video Link:

[https://www.facebook.com/drfarhanasharmi/videos/2653393181534950/?notif\\_id=1735094258988367&notif\\_t=live\\_video&ref=notif](https://www.facebook.com/drfarhanasharmi/videos/2653393181534950/?notif_id=1735094258988367&notif_t=live_video&ref=notif)

**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**

<b>Session Chair</b>	<b>ROOM: II-B</b>	<b>Session Members</b>
<b>Dr Rashida Bibi</b> Associate Professor Sarhad University <b>Pakistan</b>	<b>Time</b> <b>8:30-10:30 am (India)</b>	
<b>Dr Zulfkar Qadrie</b> Government Medical College Baramulla <b>Mudasir Maqbool</b> University of Kashmir Jammu and Kashmir Author ID: 25262024046 India	Integrating Unani Medicine in the Management of Type 2 Diabetes Mellitus	<b>Prof. Dr Rajshree Rathod</b> <b>Co-Chair</b>
<b>Dr Sharmin Haque Prima et al</b> Assistant Professor & Dental Surgeon University Of South Asia Author ID: 25262024037 Bangladesh	Assessment of medical waste management by hospitals of Dhaka city	
<b>Rhenz Stephen A. Dela Serna et al</b> West Visayas State University Iloilo City 5000 Author ID: 25262024030 Philippines	Emotion and Problem Based Coping of Caregivers in an Elderly Care Institution: A Case Study	
<b>Urvisha J. Mataliya</b> <b>Dr Vijay S. Jariwala</b> Sardar Patel University Anand, Gujarat Author ID: 25262024038 India	Impact of Women's Health and Economic Conditions on Children Nutritional Status: A Correlation Analysis	
<b>Kusumanjali</b> <b>BhagyaLakshmi</b> Chaitanya Bharathi Institute of Technology Hyderabad Author ID: 25262024125 India	Predicting Heart Attack Risk Using Machine Learning: A Comparative Study of Logistic Regression and Random Forest Algorithms	
Join Zoom Meeting: <a href="https://us06web.zoom.us/j/86955512114?pwd=VVLsM6Zbn860TVTHbLax4KtLEiSZcK.1">https://us06web.zoom.us/j/86955512114?pwd=VVLsM6Zbn860TVTHbLax4KtLEiSZcK.1</a> Meeting ID: 869 5551 2114 Passcode: 456949		
Video Link <a href="https://www.facebook.com/4757035871081719/videos/1714079752657491">https://www.facebook.com/4757035871081719/videos/1714079752657491</a>		



DAY ONE  
25<sup>th</sup> December 2024 (Wednesday)  
ROOM: III-A

<b>Session Chair</b> <b>Prof. Dr Triyo Supriyatno</b> Universitas Islam Negeri Maulana Malik Ibrahim Malang Indonesia	<b>Time</b> <b>10:00-12:00 am (India)</b>	<b>Session Members</b>
<b>Dr Samridhi et al</b> Associate Professor Indira Gandhi University Meerpur, Rewari, Haryana Author ID: 25262024126 India	Artificial Intelligence: A New Frontier in Academic Research and Innovation	<b>Prof. Dr Badiuddi Ahmed</b> Co-Chair
<b>Dr John Erwin P. Pedroso et al</b> West Visayas State University Author ID: 25262024062-84-93 Philippines	Students' Views on Using Canva as an All-In-One Tool for Creativity and Collaboration	
<b>Dr Gunmala Gugalia</b> <b>Dr Sankarshan Panda</b> Associate Professor Sri Balaji University, Pune Author ID: 25262024058 India	Evaluating Efficiency of Free Automated Plant Identification Applications	
<b>Dr Nidhi Goenka</b> Associate Professor ISBM University Author ID: 25262024109 India	Exploring AI's Dual Role in Enhancing Academic Learning and Professional Growth	
<b>Dr K.Manimekalai</b> Associate Professor & Head Sri GVG Visalakshi College for Women Author ID: 25262024041 India	Exploring the impact of AI on academic excellence and professional advancement	
<b>Prof. Dr Zalesskaia Olga</b> Blagoveshchensk State Pedagogical University/ Blagoveshchensk Author ID: 25262024011 Russia	The Use of Artificial Intelligence in Writing Graduation Qualification Works by International Students	
<b>Join Zoom Meeting:</b> <a href="https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6yvtmaO0efzO7OP9arBbiO4.1">https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6yvtmaO0efzO7OP9arBbiO4.1</a> <b>Meeting ID: 858 2099 9056</b> <b>Passcode: 346070</b>		
<b>Video Link:</b> <a href="https://www.facebook.com/3222535728027220/videos/1121183206272200">https://www.facebook.com/3222535728027220/videos/1121183206272200</a>		

**DAY ONE**25<sup>th</sup> December 2024 (Wednesday)**ROOM: IV-B****Session Chair****Dr Deependra Pandey**

Associate professor  
Amity University Uttar Pradesh, Lucknow  
India

**Time****10:30 am-12:30 am (India)****Session Members****Rmellah Joy Z. Gabiota et al**

West Visayas State University, Iloilo City

Author ID: 25262024031

**Philippines**Student Leadership Styles in a  
Teacher's College**Dr I. Siddiq  
Co-Chair****Dr Hemlata Pande**

Assistant Professor  
S. S. J. University, Uttarakhand  
Author ID: 25262024114  
India

Applications of Mathematical  
techniques to analyze the development  
of research related to artificial  
intelligence in the last two decades

**Jahir Rayhan**

Assistant Professor  
Ishakha International University  
Author ID: 25262024034  
Bangladesh

Creating ingenious dynamic novelty  
with new perspectives for classifying  
the applications and exhibiting the  
implications with integration of AI  
technologies in business management  
and e-commerce: A theoretical and  
review-based research study

**Dr Sonia Rajoria**

Assistant Professor  
Gitarattan International Business School  
Author ID: 25262024045  
India

Transforming Academia and  
Professions: The Role of Artificial  
Intelligence and Emerging  
Technologies

**Tushar Ranjan Barik**

Assistant Professor  
Kalinga University, Raipur  
Author ID: 25262024059-60  
India

Integration of AI Technology in Cost  
and Management Accounting for  
Effective Cost Control

Designing and Implementing AI-  
Based Systems for Effective  
Corporate Tax Planning and  
Management

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**Meeting ID: 869 5551 2114****Passcode: 456949**

**Video Link:** <https://www.facebook.com/4757035871081719/videos/1118422259902675>



**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**

**ROOM: V-A**

**Session Chair**  
**Dr Jyotsana Shukla**  
Associate Professor  
Integral University  
**India**

**Time**  
**12:00-2:00 pm (India)**

**Session Members**

**L N V S M Gayathri Vurakaranam**  
**Dr Sandhya Deepika**  
Andhra University, Visakhapatnam  
Andhra Pradesh  
Author ID: 25262024063  
India

Innovative Artificial Intelligence in  
Environmental Science: Innovations  
and Challenges

**Pro. Dr Rajasekaran S**  
**Co-Chair**

**Davit S. Hovhannisyan**  
National Polytechnic University of Armenia  
Faculty of Applied Mathematics and Physics  
**Sergo A Episkoposyan**  
Yerevan State University  
Author ID: 25262024092  
Armenia

Application of Walsh  
Transformations for Encryption and  
Decryption of Audio Signals

**Sergo A. Episkoposian**  
Yerevan State University  
**Svetlana A. Grigoryan**  
National Polytechnic University of Armenia  
Author ID: 25262024096  
Armenia

Hybrid Cryptographic Algorithm  
Based on AES, RSA, and Walsh  
Transform

**Abdullahi Raji Egigogo et al**  
Federal University of Technology, Minna  
Author ID: 25262024119  
Nigeria

Phishing Detection: A  
Comprehensive Review and a Deep  
Learning-Based Multi-Class  
Framework

**Dr John Erwin Prado Pedroso et al**  
West Visayas State University, Iloilo City  
Author ID: 25262024093  
Philippines

How do Student Leaders in a  
Teachers' College Cope with  
Stress?

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**Meeting ID:** 858 2099 9056  
**Passcode:** 346070

**Video Link:** <https://www.facebook.com/3222535728027220/videos/2341966266146478>

**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: VI-B**

**Session Chair****Time****Session Members****Dr Kamble Vidhin Sundar**

Associate Professor  
Sangola College, Sangola  
India

**12:30-2:30 pm (India)**

**Prof. Dr Vikas Somani**  
**Co-Chair****M. Sasikala et al**

Jamal Mohamed College, TamilNadu,  
Author ID: 25262024110  
India

The Impact of Eco-Friendly Fibers  
on the Sustainable Future of the  
Textile Industry – An Overview

**Uthman M. I. et al**

Kebbi University of Science and Technology  
Author ID: 25262024120  
Nigeria

Comparative Evaluation of Biogas  
Production From Cow Dung, Neem  
Seed And Groundnut Shell

**Sandeep Saxena et al**

(NextGen.)-VGU, Jaipur -(FOM)  
Author ID: 25262024032  
India

Sustainable Practices In Hospital  
Industry

**Shehu Muhammad et al**

Abdullahi Fodiyo University of Science and  
Technology  
Author ID: 25262024105  
Nigeria

Bacteriological Quality Assessment  
of some Sachet Water Sold in Dutse  
Metropolis, Jigawa State, Nigeria

**Sohini Dutta et al**

Indian Institute of Social Welfare and  
Business Management  
Author ID: 25262024079  
India

An Empirical Study on the  
Advancing of Sustainability in  
Indian Agriculture

**Eyyunni Pardha Saradhi Ayyangar et al**

Andhra University, Visakhapatnam  
Author ID: 25262024095  
India

A Review on Bioinformimimetics:  
Revolutionizing Science through AI  
Driven Synergy of Bioinformatics  
and Biomimicry

**Join Zoom Meeting: <https://us06web.zoom.us/j/86955512114?pwd=VVLsM6Zbn860TVTHbLax4KtLEiSZeK.1>**

**Meeting ID: 869 5551 2114**

**Passcode: 456949**

**Video Link: <https://www.facebook.com/4757035871081719/videos/509071544842538>**



**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: VII-A**

**Session Chair****Time****Session Members****Dr Hina Jignesh Chokshi**

Associate Professor

Parul University

India

**2:00-4:00 pm (India)****Dr Chandra Bhooshan Singh et al**

Assistant Professor

Kalinga University, Raipur

Author ID: 25262024099

India

The Role of AI-Driven Learning in the Comprehensive Development of Higher Education Professionals: An Empirical Analysis

**Dr Marjohn V. Anislag****Co-Chair****Dr Mary Jane G. Bayaton**

Kasiglahan Village National High School

Author ID: 25262024051

Philippines

The Impact of Computer-Aided Instructional Materials on Students' Academic Performance in Science 7

**U. Pushpalatha**

Assistant Professor of English

KCG College of Technology, Tamilnadu

Author ID: 25262024115

India

The Significance of Applying the Kaizen Principle to Language Learning

**Dr Shinki K Pandey****Dr Nishtha Sharma**

Kalinga University, Chattisgarh

Author ID: 25262024122

India

Role of Artificial Intelligence in Higher Education

**Umar Mohammed Jajere et al**

Nigerian Defence Academy

Author ID: 25262024015

Nigeria

Reliability Assessment of Power Distribution Systems to Address Frequent Power Outages and Automatic Line Switches Using SCADA System

**Join Zoom Meeting:** <https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6vtmaO0efzO7OP9arBbiO4.1>**Meeting ID: 858 2099 9056****Passcode: 346070****Video Link:** <https://www.facebook.com/3222535728027220/videos/1329241948526535>

**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**

**ROOM: VIII-B**

**Session Chair**

**Time**

**Session Members**

**Dr Anu Dandona**

**2:30-4:30 pm (India)**

Associate Professor

D Y Patil International University, Pune.

**India**

**Dr Fogbonjaiye Seun Samuel**

Kogi State University Kabba

Author ID: 25262024097

India

SDG 3: Promoting Health, Well-Being, and Economic Development using Artificial Intelligence and Technology

**Prof. Dr Myo Kywe**

**Co-Chair**

**Gwaison Panan Danladi**

Nigerian Police Academy

Author ID: 25262024097

Nigeria

Attitude and Perceptions of Academicians on Artificial Intelligence Technology in Plateau State, Nigeria

**Ms. Aarti Upadhyay**

**Ms. Ratna Raghuvanshi**

Sage University Bhopal

Author ID: 25262024124

India

A Study on Artificial Intelligence and Technology used in Commerce Academia & Profession

**Timothy Christian Bonyog et al**

West Visayas State University, Iloilo City

Author ID: 25262024123

Philippines

Stressors and Coping Strategies of Student Leaders in a Teachers' College: A Qualitative Study

**Leenshya GUNNOO**

University of Technology Mauritius

**Eric BINDAH**

University of Mauritius

Author ID: 25262024001-2

Mauritius

Exploring the Role of Technology in Enhancing Accounting Practices: AIS Adoption Among SMEs in Mauritius

The Role of Social Media in Transforming Communication and Learning in Distance Education

**Mandan Savita**

**Kumawat Nikita**

R C Patel Institute of Pharmaceutical

Education and Research Shirpur

Author ID: 25262024118

India

Artificial Intelligence and Technology in Academia and Profession

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**Passcode: 456949**

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**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: IX-A**

<u>Session Chair</u>	<u>Time</u>	<u>Session Members</u>
<b>Dr. R. Suyam Praba</b> Associate Professor Sri Krishna College of Engineering and Technology India	4:00-6:00 pm (India)	
<b>Dr Udita Kundu</b> Assistant Professor DPG Degree College, Gurugram Author ID: 25262024005 India	AI Adoption in Higher Education during the COVID-19 Pandemic	<b>Prof. Dr Sandhya Deepika</b> Co-Chair
<b>Sulaiman Bashir</b> Federal University Dutsin-Ma Author ID: 25262024116 Nigeria	Challenges and Prospects of Incorporating Artificial Intelligence and Technology in the Nigeria's Agriculture	
<b>Dr Deepti Patnaik</b> Assistant Professor Kalinga University, Chhattisgarh Author ID: 25262024024 India	Artificial Intelligence Applications in Business	
<b>Abdulkadir Dauda Raula et al</b> Federal University Dutse Author ID: 25262024054 Nigeria	An Assessment on the Roles of Vigilante Groups in Combating Daba: A Study of Kano Metropolis, Kano State, Nigeria	
<b>Ms Deepshikha Patel</b> <b>Ms Mariyam Ahmed</b> Centurion University of Technology & Management, Odisha Author ID: 25262024071 India	A bibliometric analysis of the nexus of influencer marketing and social commerce	
<b>A. Muhammad et al</b> Kebbi State University of Science and Technology Aliero Author ID: 25262024033 Nigeria	Relationship between particulate matter ( $pm_{2.5}$ $\mu g/m^3$ ) and some lower atmospheric parameters in north- central Nigeria, during dip minimum solar activity	
<b>Join Zoom Meeting:</b> <a href="https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6ytmaO0efzO7OP9arBbiO4.1">https://us06web.zoom.us/j/85820999056?pwd=jask2Xqa6ytmaO0efzO7OP9arBbiO4.1</a> <b>Meeting ID: 858 2099 9056</b> <b>Passcode: 346070</b>		

**Video link:** <https://www.facebook.com/3222535728027220/videos/489405927021195>

**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: X-B**

**Session Chair****Prof. Dr Laxman Popatrao Shinde**

Swami Ramanand Teerth Marathwada  
 University Nanded  
**India**

**Time****4:30-6:30 pm (India)****Session Members****Dr. S. Selvin et al**

RVS College of Education  
 Author ID: 25262024048  
 India

Role of Artificial Intelligence in  
 Reshaping Higher Education in  
 India

**Dr Gunmala Gugalia**  
**Co-Chair**

**Chitisha Gunnoo**

Doctoral Candidate  
 University of Mauritius  
 Author ID: 25262024055  
 Mauritius

Innovative AI Pedagogies:  
 Measuring Their Impact on Student  
 Engagement and Achievement

**Dr I. Siddiq et al**

Sree Saraswathi Thyagaraja College, Pollachi,  
 Tamilnadu  
 Author ID: 25262024047  
 India

Challenges and Opportunities of AI  
 Implementation in Education  
 Systems of Rural India

**Dr Aliyu Mustapha et al**

Universiti Teknologi PETRONAS  
 Federal University of Technology Minna  
 Author ID: 25262024028  
 Malaysia-Nigeria

Enhancing Road Safety Education  
 through AI-Driven Tools: The  
 Impact of Driving Simulations for  
 Accident Prevention

**Cpt. Dr Vinodkumar D. Kumbhar**

**Dr Amol G. Sonawale**  
 PDVP Mahavidyalaya, Tasgaon  
 Author ID: 25262024107  
 India

The Inclusion of Artificial  
 Intelligence and Technology in  
 Academic and Professional Sectors

**Hassana Haruna Aliyu et al**

Pharmacy Council of Nigeria  
 Author ID: 25262024074  
 Nigeria-Ghana

Enhancing Controlled Substance  
 Security in Community Pharmacies  
 with AI and Technology in Nigeria:  
 A Review

**Join Zoom Meeting:** <https://us06web.zoom.us/j/86955512114?pwd=VVLsM6Zbn860TVTHbLax4KtLEiSZeK.1>

**Meeting ID: 869 5551 2114****Passcode: 456949**

**Video Link:** <https://www.facebook.com/4757035871081719/videos/583034874461489>



**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: XI-A**

**Session Chair****Time****Session Members****Prof. Dr Rachana R Pachori**

R.A.Arts, Shri M.K.Commerce and Shri  
S. R. Rathi Science Mahavidyalaya,  
**India**

**6:00-8:00 pm (India)**

**Haliru et al**

Kebbi University of Science and  
Technology  
Author ID: 25262024029  
Nigeria

Comparative evaluation of biogas  
production from cow dung, neem seed and  
groundnut shell

**Dr Sonawale Amol Gowardhan**  
**Co-Chair**

**Aishatu Mustapha et al**  
Niger State Polytechnic Zungeru  
Author ID: 25262024049  
Nigeria

Harnessing Artificial Intelligence in  
Personalised Nutrition and Microbial  
Health: Optimising Public Health Outcomes

**Zainab Ali et al**

Abdullahi Fodiyo University of Science  
and Technology  
Author ID: 25262024106  
Nigeria

Antibacterial Activity of Moringa Oleifera  
against Klebsiella pneumoniae and Proteus  
Mirabilis

**Nafi'u Abdullahi Boka et al**

Abdullahi Fodiyo University of Science  
and Technology  
Author ID: 25262024106  
Nigeria

Review on Prevalence and Characterization  
of Extended Spectrum Beta-lactamases  
Producing Pseudomonas aeruginosa in  
Nigeria

**Ubaidullah Muhammad  
Shehu Muhammad**

Kebbi State University of Science and  
Technology  
Author ID: 25262024061  
Nigeria

Efficacy of the Carestart Malaria HRP2 and  
PLDH/HRP2 Combo Compared to  
Microscopy in Diagnosis of Malaria  
Parasite

**Zainab Muhammad Mukhtar et al  
Abdullahi Fodiyo University of  
Science and Technology**

Author ID: 25262024040  
Nigeria

Insecticidal Effect of Castor Plant Leaf  
Powder (Ricinus Communis) on Cowpea  
Bruchid (Callosobruchus Maculatus) in  
Stored Cowpea Seeds

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**Meeting ID: 858 2099 9056**

**Passcode: 346070**

**Video Link:** <https://www.facebook.com/3222535728027220/videos/12763253636388>

**DAY ONE**  
**25<sup>th</sup> December 2024 (Wednesday)**  
**ROOM: XII-B**

**Session Chair****Time****Session Members****Dr Sankarsan Panda**

Associate Professor  
Acharya Shri Mahapragya Institute of  
Excellence  
India

**6:30 am-8:30 pm (India)**

**Dr Mukesh Chahal.**

Assistant Professor  
B.A.R Janta College Kaul (HR)  
Author ID: 25262024022  
India

Artificial intelligence & its role in  
the field of education

**Dr Prajakta Kailas Khule**  
**Co-Chair**

**Zahedul Islam et al**

Comilla Univeristy  
Author ID: 25262024083  
Bangladesh

Exploring Violence and Harassment  
Against Street Children in  
Bangladesh: An Empirical Study of  
Cumilla and Chittagong City  
Corporation

**Mr. Muhammad Waqas**

UVAS Business School  
Author ID: 25262024070  
Pakistan

Impact of Human Resource  
Information System (HRIS)  
Implementations on Organizational  
Performance (OP)(A Case Study of  
Punjab Revenue Authority)

**Rmellah Joy Z. Gabiota et al**

West Visayas State University, Iloilo City  
Author ID: 25262024031  
Philippines

Student Leadership Styles in a  
Teacher's College

**Faryal Dehqan**

St. Petersburg Peter the Great Polytechnic  
University  
Author ID: 25262024027  
Russia

The role of blockchain technology  
in the evolution of Islamic banking

**Ibrahim Ahmad Isah et al**

Federal University Dutse, Jigawa State  
Author ID: 25262024053  
Nigeria

Re-Occurrence of Ethno-Religious  
Conflicts in Jos North Local  
Government Area, Plateau State,  
North Central, Nigeria

**Rhenz Stephen A. Dela Serna et al**

Author ID: 25262024030  
Philippines

Emotion and Problem Based  
Coping of Caregivers in an Elderly  
Care Institution: A Case Study

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**Passcode: 456949**

**Video Link:** <https://www.facebook.com/4757035871081719/videos/567659212860133>



**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**  
**ROOM: XIII-A**

**Session Chair****Time****Session Members****Dr K.Manimekalai**

Associate Professor  
Sri GVG Visalakshi College For  
Women Udumalpet, Tamilnadu  
**India**

**8:00-10:00 am (India)****Dr Sandhya Bhatt**

Assistant Professor  
Amity University, Noida, Uttar Pradesh  
Author ID: 25262024014  
**India**

Role of Metaverse in Education

**Prof. Dr Vrunal Vishwasrao More**  
**Co-Chair****Dr. Navdeep Kaur**

**Monika Rai**  
Guru Nanak Dev. University, Amritsar  
Author ID: 25262024111  
**India**

Design Thinking: As a Digital Tool to  
Enhance the Creativity and Problem-  
Solving Ability of Students**Touhidul Islam**

Northern University Bangladesh (NUB)  
Author ID: 25262024067  
**Bangladesh**

Digital Humanities as a Platform for Cross-  
Cultural Critique: Identity Formation in  
Adichie's Americanah**Ashraf Nawaz**

**Prof. Dr Rajni Saluja**  
Cluster University of Jammu  
Author ID: 25262024085  
**India**

Exploring Stunting and Its Determinants  
among School: Going Children in Jammu &  
Kashmir**Er. Satyendra Prasad Rajgond**

Gondwana International Technology &  
Research Centre (GITARC)  
Author ID: 25262024007-8  
**India**

To develop the Nobel Prize “for  
foundational discoveries and inventions that  
enable machine learning with artificial  
neural networks” theory by hardware  
description languageTo Develop “Unified Complex Radio  
Antenna “by Verilog & Test Bench**Join Zoom Meeting:** <https://us06web.zoom.us/j/89279353949?pwd=vclBxpLr3SQaKfrn9x0y6oGGrNKdnV.1>**Meeting ID: 892 7935 3949****Passcode: 905259**Video Link: <https://www.facebook.com/3222535728027220/videos/1140414937615573>

**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**  
**ROOM: XIV-B**

**Session Chair****Time****Session Members****Dr Teo Kok Wei****8:30-10:30 am (India)**

University Technology Malaysia (UTM)  
**Malaysia**

**Dr. Saima Jan et al**

University of Kashmir  
Author ID: 25262024006  
India

Blending cultures: The dance of syncretism  
and borrowing

**Dr S. Selvin**  
**Co-Chair**

**Dr Anshu Singh Choudhary**

Amity University Madhya Pradesh  
Author ID: 25262024025  
India

Uniting academia, industry, and fashion on  
a global stage for innovation

**Md Abu Sayed**

Northern University Bangladesh (NUB)  
Author ID: 25262024065  
Bangladesh

Foretelling Futures: Climate Crisis and  
Speculative Adaptation in Octavia Butler's  
Parable of the Sower

**Dayashree Kajulima****Dr Girish Prasad Rath**

Centurion University of Technology &  
Management, Odisha  
Author ID: 25262024071  
India

Speech Recognition Technologies:  
Reducing Language Anxiety and Boosting  
Confidence

**Mandan Savita et al**

R. C. Patel Institute of Pharmaceutical  
Education and Research  
Author ID: 2023252612022  
India

Artificial Intelligence and Technology in  
Academia and Profession

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**Passcode: 680113**

Video Link: <https://www.facebook.com/4757035871081719/videos/545207401813379>



**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**  
**ROOM: XV-A**

**Session Chair****Time****Session Members****Dr Nidhi Goenka**

Associate Professor  
ISBM University  
India

**10:00-12:00 am (India)**

**Dr Shefali Yateen Jain**

Assistant Professor  
ISBM University  
Author ID: 25262024081  
India

Stories of Struggle and Strength: Women's  
Epistemic Resistance in Second Class  
Citizen and When I Hit You

**Prof. Abu Noman Faruq Ahmmed**  
**Co-Chair**

**Dr A. Shrikant et al**

Kalinga University, Raipur  
Author ID: 25262024050  
India

AI-Driven Sustainability Strategies for  
Responsible Business Innovation

**Dr Priyanka M. Ramteke**

Assistant Professor  
Shri Shivaji Science College Amravati  
Author ID: 25262024043  
Bangladesh

The Impact of Artificial Intelligence on  
Academic Activities in Indian Higher  
Education: An Empirical Analysis

**Dalia Naushin Ima**

Northern University Bangladesh (NUB)  
Author ID: 25262024069  
Bangladesh

Gender, Nature, and Power in Margaret  
Atwood's The Handmaid's Tale: An  
Ecofeminist Reading

**Faguele Suaalii**

National University of Samoa  
Author ID: 25262024066  
Samoa

GenAI: Elevate excellence but maintain  
integrity in science education in Samoa

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**Passcode: 905259**

Video Link: <https://www.facebook.com/drfarhanasharmi/videos/2099010467168989>

**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**  
**ROOM: XVI-B**

**Session Chair****Time****Session Members****Dr Vijay S Jariwala**Associate Professor  
Sardar Patel University  
India**10:30-12:30 am (India)****Mr. Shubham Singh Chandel Ms. Shivangi Makade**Kalinga University, Raipur  
Author ID: 25262024086  
IndiaAI-Powered Tax Optimization: Redefining  
the Taxation Profession in the Digital Age**Dr Abhishek Rajeshkumar Mehta**  
Co-Chair**Mahabuba Nishat Tamanna**  
Northern University Bangladesh  
Author ID: 25262024073  
BangladeshFrom Being Silent to Become Voiced:  
Identifying Personal Conflict to Ensure  
Social Justice in The Color Purple**Bala S Toleti****Prof. Dr. Ashutosh B Murti**  
Indian Institute of Management,  
Shillong  
Author ID: 25262024064  
IndiaEnhancing Talent Development  
Management in Organizations Using  
Artificial Intelligence and Technologies**Dr. M. Vadivel**Assistant Professor of Economics  
Erode College of Law  
Author ID: 25262024108  
IndiaChallenges of artificial intelligence and  
technology in Indian education system**Anushree Ray****Soma Roy Chowdhury**  
Calcutta University, West Bengal  
Author ID: 25262024052  
IndiaEnabling economic empowerment through  
financial inclusion: a study of self-help  
group-bank linkage programme in West  
Bengal**Nidhi Prakash**Banasthali Vidyapith  
Author ID: 25262024088  
IndiaHarnessing AI and Technology to Empower  
Academia and Professions**Join Zoom Meeting:** <https://us06web.zoom.us/j/89273091448?pwd=CgizYbi3DX0Djl05A92lX9NXEpx3WO.1>**Meeting ID: 892 7309 1448****Passcode: 680113****Video Link:** <https://www.facebook.com/4757035871081719/videos/583947440947284>



**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**

**ROOM: XVII-A**

**Session Chair**

**Prof. Dr Ankur Goel**

Department of Business Administration  
MIT, Meerut  
India

**Time**

**12:00-2:00 pm (India)**

**Prof. Dr Rajshree Rathod**

Tilak College of Education Pune  
Maharashtra  
Author ID: 25262024102  
India

From classrooms to chatbots:  
transforming English teaching-  
learning with artificial intelligence

**Dr Ishfaq Ahmad Malik**  
**Co-Chair**

**Dr Marjohn V. Anislag**

Associate Professor  
Surigao Del Norte State University  
Author ID: 25262024078  
Philippines

Performance Evaluation of Sweet  
Potato (*Ipomoea batatas* L.) Varieties  
Under Different Fertilization  
Strategies Intercropped with Mulberry  
Trees

**Dr Md. Ruhul Amin**

Associate Professor  
Comilla University  
Author ID: 25262024012  
Bangladesh

Vulnerable Group Development  
(VGD) Program and its impact on  
Micro-level in Rural Bangladesh: An  
In-depth Study

**Dr Anu Dandona**

Associate Professor  
D Y Patil International University, Pune  
Author ID: 25262024017  
India

The Psychology of E-Commerce  
Addiction: Understanding  
Uncontrollable Online Shopping  
Behaviour

**Dr J. Suresh Kumar**

Associate Professor)

**Dr D. Shobana**

Assistant Professor  
St. Joseph University, Nagaland  
Author ID: 25262024036-56  
India

Agritech in India: Harnessing  
Opportunities, Addressing Challenges,  
and Exploring Future Prospects

Artificial Intelligence Research in  
Indian Universities: Opportunities and  
Challenges

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**Passcode: 905259**

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**DAY TWO**  
**26<sup>th</sup> December 2024 (Thursday)**  
**PLENARY SESSION**

**Indian Time**

<b>Welcome Address</b>	: <b>Dr Khandaker Mursheda Farhana</b> Associate Professor Shanto-Mariam University of Creative Technology <b>Bangladesh</b>	<b>3:00-3:05 pm</b>
<b>Focus:</b> Data Concealment and Confidentiality in ICT	: <b>Prof. Dr Ankur Goel</b> Department of Business Administration, MIT, Meerut <b>India</b>	<b>3:05-3:25 pm</b>
<b>Focus:</b> International security	: <b>Dr Evgenii Gamerman</b> Senior Researcher Institute for Comprehensive Analysis of Regional Problems of the Far Eastern Branch of the Russian Academy of Sciences <b>Russia</b>	<b>3:25-3:45 pm</b>
<b>Focus:</b> Digital Implant Planning and Guided Implant Surgery	: <b>Dr Khaldi Manel</b> Resident in Oral surgery and oral pathology University Hospital of Annaba <b>Algeria</b>	<b>3:45-4:05 pm</b>
<b>Focus:</b> Benefits and Challenges of Artificial Intelligence in Education	: <b>Muliagatele Dr. Rasela Tufue-Dolgoy</b> Associate Professor The National University of Samoa <b>Samoa</b>	<b>4:05-4:25 pm</b>
<b>Focus:</b> 3D Printing in Dentistry	: <b>Dr Aymen Rechachi</b> Resident in Oral surgery and oral pathology University Hospital of Annaba <b>Algeria</b>	<b>4:25-4:45 pm</b>
<b>Focus:</b> Class Struggle and Power Dynamics	: <b>Mohammad Jashim Uddin</b> Associate Professor & Head Department of English Northern University Bangladesh <b>Bangladesh</b>	<b>4:45-5:05 pm</b>
<b>Focus:</b> Silver Lining of Artificial Intelligence and Technology in Social Studies Education	: <b>Reynaldo V. Moral, PhD</b> Cebu Normal University <b>Philippines</b>	<b>5:05-5:25 pm</b>
<b>Vote of thanks</b>	: <b>G. M. Omor Faruque Chowdhury, FCMA</b> Director CAPCDR	<b>5:25-5:30 pm</b>

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THANK YOU

Conference Link: <http://capdr.org/capcdr-8th-conference/>

## Relationship between particulate matter ( $PM_{2.5}\mu g/m^3$ ) and some lower atmospheric parameters in north-central Nigeria, during DIP minimum solar activity

**A. Muhammad<sup>1\*</sup>, M. Abbas<sup>2\*</sup>, B. W. Joshua<sup>3\*</sup> Bande A. M<sup>4\*</sup>,**

<sup>1\*</sup>Department of Physics, Faculty of Physical sciences, Kebbi State University of Science and Technology Aliero, Nigeria.

<sup>2\*</sup>Department of Physics, Faculty of Physical sciences, Kebbi State University of Science and Technology Aliero, Nigeria.

<sup>3\*</sup>Department of Physics, Faculty of sciences, Federal University Birnin Kebbi, Nigeria.

\*Corresponding Author Email: [garkoncy@gmail.com](mailto:garkoncy@gmail.com) (A. Muhammad)

This paper investigated the relationship between particulate matter ( $PM_{2.5}\mu g/m^3$ ) Concentrations with some lower atmospheric parameters in Niger State (Minna) during the year of dip minimum solar activity 2008. Lower atmospheric parameters like temperature and pressure were used in the study. The particulate matter and the monthly average atmospheric parameters were converted to the daily average and normalised to a standard scale. The result shows seasonally enhanced  $PM_{2.5}\mu g/m^3$  with temperature, in autumn with least amplitude in winter and rarely any noticeable difference in spring and summer. The seasonal correlation between  $PM_{2.5}\mu g/m^3$  and temperature shows a low indirect relationship with magnitude -0.12235 in winter relative to spring -0.01050. In contrast, the  $PM_{2.5}\mu g/m^3$  maintained a higher direct relationship in autumn than in summer of magnitude 0.083316 and 0.003048, respectively. The correlation between  $PM_{2.5}\mu g/m^3$  and pressure in autumn, winter and spring shows a positive correlation of 0.048192, 0.014496, and 0.006861, respectively. However, an indirect relationship in summer with a magnitude of -0.05282 was observed. The correlation coefficient of  $PM_{2.5}\mu g/m^3$  is higher during autumn 0.048192 and has a lower value during summer -0.05282 due to the scavenging process. Generally, a higher direct correlation exists between  $PM_{2.5}\mu g/m^3$  and atmospheric parameters with temperature, particularly in autumn 0.083316 across all seasons due to the transport of dust particles by dry continental air masses, which is similar to autumn with pressure with a positive magnitude of 0.048192. This strong relationship may be explained in terms of atmospheric wind and solar zenith angles that are dominant during these periods.

**Keywords:** Air temperature ( $0^\circ$ ), Minna, pressure (hpa),  $PM_{2.5}\mu g/m^3$ .



## AI-Driven Sustainability Strategies for Responsible Business Innovation

**Dr A. Shrikant**

Assistant Professor  
Faculty of Commerce and Management  
Kalinga University, Raipur  
India

**Dr Jyotsna Dwivedi**

Assistant Professor  
Faculty of Commerce and Management  
Kalinga University, Raipur  
India

**Ms Dawakit Lepcha**

Assistant Professor  
Faculty of Commerce and Management  
Kalinga University, Raipur  
India

The convergence of artificial intelligence (AI) and sustainable business practices represents a transformative paradigm shift in contemporary corporate strategy. This research explores the intricate relationship between advanced technological capabilities and responsible innovation, examining how AI can catalyse more sustainable, efficient, and ethically driven marketing approaches. By leveraging machine learning, predictive analytics, and intelligent systems, organizations can develop sophisticated strategies that simultaneously address environmental challenges, optimise resource allocation, and create meaningful consumer engagement. The study investigates the multifaceted potential of AI in sustainability initiatives, analyzing its capacity to generate actionable insights, predict consumer behaviour, and design targeted interventions that minimise ecological footprints. This research comprehensively examines emerging technologies, strategic frameworks, and real-world case studies, demonstrating how AI can transform traditional marketing paradigms into dynamic, responsive, and environmentally conscious ecosystems. Key findings highlight the potential for AI to drive systemic change, offering businesses innovative tools to balance economic objectives with environmental stewardship. The research contributes critical perspectives on integrating technological intelligence with sustainable development goals, providing a roadmap for responsible business innovation in the digital age.

**Keywords:** Artificial Intelligence, Sustainability, Responsible Innovation, Marketing Strategy, Environmental Technology.

## A Study on Artificial Intelligence and Technology Used in Commerce Academia & Profession

**Ms.Aarti Upadhyay**

**Ms. Ratna Raghuwanshi**

Assistant Professor,  
Department of Commerce,  
Sage University Bhopal Sage University Bhopal  
India

Integrating Artificial Intelligence (AI) and advanced technologies in commerce, academia, and professional practice has reformed how businesses and educational institutions function. AI-driven tools, such as machine learning algorithms, natural language processing, and predictive analytics, foster innovative teaching methodologies and practical applications in commerce. In academia, AI empowers personalised learning experiences, automates administrative tasks, and provides real-time insights into student performance. Advanced technologies like virtual and augmented reality augment experiential learning, offering students immersive simulations of real-world business scenarios. Moreover, intelligent tutoring systems and AI-based research tools are renovating the pedagogical approaches, bridging the gap between theoretical knowledge and practical application. Professionally, AI has streamlined business processes, ranging from financial analysis and supply chain management to customer relationship management and marketing. Technologies such as blockchain, cloud computing, and robotic process automation (RPA) empower organisations to achieve greater efficiency, precision, and scalability. AI-powered analytics are dynamic strategic decision-making that identifies trends, forecasts market dynamics, and optimises resource allocation. This paper explores the transformative role of AI and related technologies in reforming commerce education and professional practice. It highlights emerging trends, challenges, and opportunities while emphasising the need for ethical considerations and continuous skill development to harness these innovations to their full potential.

**Keywords:** Artificial Intelligence, Commerce Education, Professional Practices, Advanced Technologies, AI in Business, Innovation in Academia.



## Digital Innovation and its impact on Electronic Tax System Implementation: Exploring the mediating Role of user satisfaction

**Abdullah Alhubail**

Kuwait

This study investigates the relationship between digital innovation and the electronic tax system in Kuwait. In addition, it investigates the impact of user satisfaction as an intermediate mechanism between digital innovation and electronic tax systems. The study adopts a quantitative method. A survey questionnaire was administered to collect the data, where the valid data was acquired from 199 of the 448 tax department employees in the Kuwait finance ministry. The findings in this study revealed that digital innovation had a significant effect on the electronic tax system in Kuwait. In addition, user satisfaction is vital in mediating the relationship between digital innovation and electronic tax systems.

**Keywords:** taxation, digital, innovation, Kuwait

## A Study on Complementary Role of Villante Groups in Combating Kidnapping: A Study of Doguwa Local Government Area, Kano State

**<sup>1&2\*</sup>Abdulkadir Dauda Raula, <sup>2</sup>Habibu Ahmad Isa, <sup>2</sup>Suleman Isyaku Muhammed, <sup>2&3</sup>Aliyu Dalhatu Adamu, <sup>3</sup>Abdulhadi Hussaini, <sup>4</sup>Abba Muhammad Adua, <sup>5</sup>Ibrahim Kachallah Modu, <sup>6</sup>Shehu Muhammad and <sup>6</sup>Ubaidullah Muhammad.**

<sup>1</sup>Department of State Services, Nigeria.

<sup>2</sup>Department of Sociology, Faculty of Art and Social Sciences, Federal University Dutse, Jigawa State, Nigeria.

<sup>3</sup>Department of Sociology, Faculty of Art and Social Sciences, Federal University of Dutsin-Ma, Katsina State, Nigeria.

<sup>4</sup>Department of Electrical and Electronics Engineering, Faculty of Engineering, Abdullahi Fodiyo University of Science and Technology, Aliero, Kebbi State, Nigeria.

<sup>5</sup>Department of Planning, Research and Statistics, Hydro-electric Power Producing Areas Development Commission, State Office Jos, Plateau State, Nigeria.

<sup>6</sup>Department of Microbiology, Faculty of Life Sciences, Abdullahi Fodiyo University of Science and Technology, Aliero, Kebbi State, Nigeria.

One of the main problems endangering the safety and well-being of people in various parts of Nigeria is the abduction phenomenon. The issue continues to pose a security danger in Nigeria despite the government's efforts to address it and the perception of poor performance by security forces. As a result, Doguwa communities are turning to vigilante organisations to help traditional security services fight the kidnapping threat. The study assessed the achievements made by vigilante groups in their complementary role in combatting kidnapping in Doguwa Local Government Area (DLGA) in Kano State, Nigeria. The ideas of routine activity and rational choice were examined and chosen as the study's theoretical framework. The study design that was chosen was a survey. Out of the entire population, 420 people responded in total. Stratified, snowballing, availability, purposive, and multi-stage cluster sampling methods were applied. A structured questionnaire, In-Depth Interview (IDI), and Key Informant Interview (KII) instructions were employed to collect data. Descriptive statistics, such as percentage tables and frequencies, were employed to examine the quantitative data. The study found that vigilante groups use various strategies, such as neighbourhood watch, surveillance, foot patrols, community involvement, and road barricades for stop and search. Furthermore, it is shown that vigilante groups have reduced attacks, reacted promptly to emergency calls, and supported official security forces' efforts by apprehending over 20 alleged kidnappers in the fight against abduction. The government shall make efforts, law enforcement agencies, parents, religious and traditional leaders on confidence building strategies to volunteer on their role to complement the efforts of formal responsibilities of conventional law enforcement agencies, such as the Nigerian Police Force, NSCDS, DSS and Military personnel in the fight against armed banditry in Jibia LGA of Katsina state and Nigeria at large.

**Keywords:** Neighborhood watch, Kidnapping, Vigilantism, Sober, Sticks.



## Phishing Attack Mitigation: A Review and Multiclass Framework Utilizing Deep Learning Techniques

**Abdullahi Raji Egigogo<sup>1</sup>, Idris Ismaila<sup>2</sup>, Morufu Olalere<sup>3</sup>, Abisoye  
Opeyemi Aderiike<sup>4</sup>, Ojeniyi Joseph Adebayo<sup>5</sup>, Idowu Afe<sup>6</sup>**

Federal University of Technology Minna<sup>1,2,4,5,6</sup>  
Nigeria, National Open University<sup>3</sup>  
Nigeria

Recently, phishing attacks have become one of the significant cybersecurity threats, exploiting deception and human vulnerabilities to access sensitive information. This study evaluates existing phishing detection frameworks, emphasising traditional machine learning and advanced deep learning approaches while identifying significant shortcomings in multiclass categorisation and adaptation to evolving threats. To overcome these, we offer a new framework that fuses CNN and BiGRU. This hybrid approach combines local pattern recognition with long-range dependency analysis to boost detection accuracy across several attack types, including email phishing, smishing, and URL-based attacks. By incorporating robust preprocessing, feature engineering, and scalable architecture, the framework advances phishing detection capabilities, offering a comprehensive solution to counter sophisticated cyberattacks and serving as a foundation for future research in adaptive cybersecurity strategies.

**Keywords:** Deep Learning, Phishing Attack, CNN, BiGRU

## Harnessing Artificial Intelligence in Personalised Nutrition and Microbial Health: Optimising Public Health Outcomes

**Aishatu Mustapha<sup>1\*</sup> Musa Mustapha<sup>2</sup> and Salamatu Mustapha<sup>3</sup>**

<sup>1</sup> Biological Science Department, Niger State Polytechnic Zungeru, Nigeria.

<sup>2</sup> Department of Human Anatomy, Ahmadu Bello University Zaria, Nigeria.

<sup>3</sup> Ministry of Science and Technology, Minna, Niger State, Nigeria.

Nigeria

Artificial Intelligence (AI) is rapidly impacting microbial health and personalised nutrition, creating new methods to enhance public health. Personalised nutrition moulds nutrition therapy according to unique dietary, metabolic, and microbial histories to enhance health by meeting unique nutritional requirements. Today, AI is equally revamping microbial health through skilled investigation of the human microbiome, making it indispensable for disease prevention, treatment, and health preservation. Hence, this paper investigates the recent triumphs, merits, and demerits of using AI in personalised nutrition and microbiological health. AI-driven innovations, such as machine learning (ML) algorithms, optimise the scientific examination of intricate datasets for greater accuracy and personalised medical therapies. Nevertheless, the implementation of AI in these areas is not without setbacks, notably problems relating to the confidentiality of data, bias in algorithms, and the demand for top-notch expanded datasets. Ethical matters in collecting confidential health data and the availability of AI choice methods must be overcome. Subsequent studies need to centre on refining the accuracy and practicality of AI models, adhering to ethical guidelines, and researching the possibilities of AI to alleviate healthcare inequalities. Promoting cross-disciplinary research and setting up thorough regulations on ethics, AI may profoundly impact the future development of healthcare, notably by enhancing personalised nutrition and microbiological health. This article accentuates the innovative power of AI in healthcare. It gives facts about the future of personalised healthcare to better public health outcomes.

**Keywords:** Data privacy, ethical concerns, machine learning, microbial health, and personalised nutrition



## Enhancing Road Safety Education through AI-Driven Tools: The Impact of Driving Simulations for Accident Prevention

**Aliyu Mustapha<sup>1,2\*</sup>, Noorhayati Saad<sup>3</sup>, Mazli Mustapha<sup>1</sup>, Abdullahi Raji Egigogo<sup>4</sup> & Muhammad Bala Umar<sup>5</sup>**

<sup>1</sup> Mechanical Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, Perak, Malaysia.

<sup>2</sup> Industrial and Technology Education Department, Federal University of Technology Minna, Nigeria.

<sup>3</sup> Faculty of Innovation and Technology, Taylor's University Subang Jaya, Selangor Darul Ehsan, Malaysia

<sup>4</sup> Department of Software Engineering and Cyber Security, Al-Qalam University, Katsina, Nigeria.

<sup>5</sup> Department of Applied and Soft Computing, Universiti Teknologi PETRONAS, Seri Iskandar, 32610, Malaysia.

Road safety is a major global problem; notwithstanding the developments in safety technologies, driver behaviour and error remain integral contributors to accidents, underlining the demand for enhanced driver education. This study analyses the probable use of Artificial Intelligence (AI)-driven strategies to improve road safety education by boosting philosophical understanding and real-world driving skills. Using a quasi-experimental methodology, this research involved 100 qualified oil and petrol tanker drivers assigned to two groups: the initial group underwent traditional instructor-led training. In contrast, the other group had AI-based instruction using AI-powered driving simulations. Driving experience, accident history, age, and driving hours showed no significant variations between the groups. The findings of the study revealed that the AI-based group outshined the traditional training group in reaction time (2.2 vs 3.1 seconds), accident frequency (1.0 vs 3.4), road safety knowledge (22% vs 12%), and driving errors (4 vs 11 per simulation). Also, the AI group had 91% accuracy in hazard detection. The findings from the regression analysis uncovered that fewer driving errors were strongly linked with a decline in accidents, hazard detection accuracy, and driving mistakes were connected to faster reaction times and increased knowledge. Based on the findings of the study, more research needs to be done on the reliability, practical application and long-term effects of AI in different driving scenarios.

**Keywords:** Accident Prevention, AI-driven Tools, Driving Simulation, Road Safety Education and Traffic Accidents

## The Integration of AI in Teacher Leadership: Ethical and Practical Considerations

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The growth of AI technologies has rapidly evolved and revolutionised the operation space of teacher leadership by offering both prospects for growth and challenges that require scrutiny. This research aims to examine the complex interplay of AI with educational leadership within ethical, operative, and emancipative dimensions for technological learning environments in educational systems. Thus, the general structure of the study leans toward such areas as data analysis, learning systems, educators and their professional development, and administrative work; at the same time, the most challenging aspects of learning technologies, as well as other ethical issues, are identified and are discussed throughout the study. The paper thus reveals, using empirical literature from multiple global settings, that AI has the potential to transform education and instructional practices and create analytical data that can inform more client-centred learning processes. At the same time, the studies also point to the need for critically conscious, elaborate practices attentive to human agency, balanced technological integration, and adequate regulatory guidelines. The implications suggest a teacher leadership framework for the application of AI technology that recognises AI as a cooperative working partner with humanity rather than a substitute for teacher skills and expertise, with recommendations for ongoing training, flexible policies, and an effort to protect the human face of learning amidst the growing automation and electronic manufacturing of education.

**Keywords:** AI Educational Leadership, Ethical Technology Integration, Algorithmic Decision-Making, Pedagogical Innovation



## An Assessment of Women's Education in India

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Women's Education refers to any form of education that aims to improve the knowledge and intellectual and physical competence of female children and growing women. It includes school, college, and university level education, vocational, technical, professional, and health education. Indian Constitution guarantees equal rights and opportunities to both men and women alike. All round development of any Nation depends more on women folk of the society. During British and Mogul rule in India, people kept their female children mostly for household work and family duties. They did not get opportunities like ancient women who belonged to the earliest period of history. Even now, we remember ladies like Sita, Savitree, Aamrpali, Gargi, Maîteryei, and Bharti, the wife of Mathili Scholar Mundan Mishra. Laxmi Bai , Savitri Rao Phule, and Jyotiba Phule, to name a few. They ardently advocated for the uplander of women in Society. In their Age, they raised their voices against the Patriarchial Dominance and gender – discrimination. Rather, women folk were oppressed, tortured, and physically assaulted by high-ups, British officers, Nawabs and Zamindars. Hence, no proper schooling was provided to female children. Before Common men, the burning problem was getting their female children married earlier in Life. This was the usual practice to avoid any sexual assault on women, and hence, education was provided only to male - children because they are supposed to be breadwinners for their families. The system of ‘Satti – Pratha” and Child- marriage” was in practice to provide safety to women. To promote male-child Education was the only option left to middle-class families and poor people of the society; before 1947, only a few fortunate Families could provide Educational Facilities to their daughters. They have full opportunities to study at the university level and even visit foreign countries for higher education. Main striking causes of negligence and denial of Educational opportunities to women are the following:- (1) Poverty (2) Superstitions in Society (3) the Lavish Life of British officials and so-called Nawabs and Zamindars,, (4) the Caste- System, (5) Honour – Killing in many high – ups Families of Rajasthan like many states But during past Fifty years a great Transformation in People’s out look is seen. Women in larger numbers have come to the forefront in different walks of life in India. Modi’s slogans “ Beti Bachao and Beti Padhao are the prime – motivation of modern Indian Society. This article contains secondary data for the collection of information; the necessary secondary data is based on different research work, Journals, magazines, and newspapers.

**Keywords:** Assessment, Opportunities, Physical Assult, Satti – Pratha

## **An Analytical Study of Variables Affecting Data Concealment and Confidentiality in ICT led Business Environment**

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With the continual growth of technology and the vast increase in digital usage in business, the ideas of data concealment and data confidentiality have become increasingly vital. This is because the parties who run websites, programs, and social media platforms frequently collect and keep user personal data in order to provide suitable services tailored to each user's preferences. The purpose of this study is to identify and examine the elements that affect data security and privacy from a business perspective. The paper is initially exploratory in character, as the researcher will investigate the numerous elements affecting data security and privacy for businessmen using secondary data sources. In the second phase, a statistical analysis will gather primary data from 100 respondents (small shopkeepers) in the NCR (Meerut City) region. Convenience sampling will be implemented. A five-point Likert scale questionnaire (Google form) was utilised to collect responses. Furthermore, the statistical analysis tool 'Dimension Reduction Method' in SPSS will be used to derive findings. Results revealed that a total of six (6) components (factors) had been extracted like 'Government Initiatives & Policies', 'Network Connectivity', 'Users Confidence, acceptability & Overall Satisfaction', 'Overall Compatibility & Literacy(Financial & IT)', 'Security Mechanisms' and 'Overall Risk Assessment (Fraud, Hacking, Misuse etc). The study is practical because the digital company is expanding at a rapid pace, and data security is a major worry. The study is unusual because it is empirical in nature, and no substantial research has been undertaken on the same area using primary data so far.

**Keywords:** Data security, Data privacy, Digital business, Online transactions, Meerut city.



## Exploring the role of AI in improving the reach, quality, and personalisation of online education platforms.

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The integration of Artificial Intelligence (AI) into online education platforms has transformed the way learning is delivered, making it more accessible, engaging, and personalized. This research paper explores the multifaceted role of AI in enhancing the reach, quality, and personalisation of online education. It investigates how AI-driven algorithms enable adaptive learning pathways, tailoring educational content to individual learners' needs, preferences, and progress. By leveraging natural language processing and machine learning, online platforms provide personalised recommendations, real-time feedback, and intelligent tutoring systems that emulate human interactions. The study also examines how AI expands access to education for underserved populations, breaking geographical and socioeconomic barriers through automated content delivery and multilingual support. Moreover, it evaluates the impact of AI on improving the quality of education by streamlining administrative tasks, enhancing content curation, and enabling data-driven decision-making for educators. Through a review of case studies, user data, and expert interviews, this research identifies key benefits, challenges, and ethical considerations associated with AI in online education. It underscores the potential of AI to democratise learning opportunities while emphasising the need for equitable, transparent, and inclusive implementations. The findings aim to contribute to the ongoing discourse on leveraging AI to revolutionise online education and foster lifelong learning.

**Keywords:** Artificial Intelligence, data-driven, educators, lifelong learning

## The Psychology of E-Commerce Addiction: Understanding Uncontrollable Online Shopping Behaviour

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This investigation explores e-commerce addiction, a prevalent issue in today's digital landscape characterised by compulsive internet shopping behaviours impacting financial stability and mental well-being. Drawing from Cognitive-Behavioural Therapy (CBT) and Addiction Theory, it explores the psychological processes phenomenon, examining the influence of emotional factors like stress, depression, and sadness, along with cognitive processes such as perception, attention, and decision-making. Moreover, the research delves into the contribution of social factors, including familial, peer, cultural influences, and media portrayal, developing compulsive online shopping tendencies. Employing an exploratory design and adhering to PRISMA guidelines, the study identified relevant empirical studies and assessed article quality using QATOCSSS criteria. Findings underscore the intricate interplay of emotional, cognitive, and social factors in driving compulsive online shopping behaviours, highlighting implications for tailored intervention strategies, digital literacy initiatives, and policy measures to foster a safer online shopping environment.

**Keywords:** Online shopping, e-commerce addiction, emotions, cultural influences, behaviour



## Uniting academia, industry, and fashion on a global stage for innovation

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In today's rapidly changing world, innovation is the key to accelerating progress and solving complicated problems. Academic institutions and industrial associations, respectively, acquire unique strengths and resources to the table. By forging partnerships and utilising their expertise, they can unlock a powerful force for innovation. The advancement of modern technology and artificial intelligence (AI) has integrated academia, industry, and fashion so closely. Many transformations are now possible in teaching methods for customised educational programs to meet the requirements of many learners. The purpose of this study is to identify the transformative changes that provide a platform for interrelated collaboration, innovative thinking, and international exchange. The fashion business, which combines creativity and technology, is another sector experiencing significant transformation in operational efficiency and data-driven decision-making. AI in academia has revolutionised teaching strategies and enabled adaptable, tailored curricula that cater to the needs of a wide range of students. Research techniques that promote interdisciplinary inquiry and expedite data processing are being redesigned. This study will also encourage an inclusive understanding of AI's role in nurturing innovation across these arenas by bringing together academics, industry, and fashion. It will also discuss ethical issues, sustainability, and the value of international cooperation in maximizing AI's potential.

**Keywords:** Artificial Intelligence, Academia, Industry, Fashion, Innovation, Sustainability, Digital Transformation, Ethical AI, Global Collaboration, Future of Work.

## Enabling economic empowerment through financial inclusion: a study of self-help group-bank linkage programme in West Bengal

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This working paper defines the critical role that financial inclusion has played in the empowerment of women's economics. It uses Self-Help Group-Bank Linkage Programs (SHG- BLP) in West Bengal, India, to determine through primary data from 500 women, out of whom 450 are SHG-BLP participants and the other 50 are not SHG-BLP participants. How some indicators of women's economic empowerment are affected by opening, or not opening, an account in a bank and acquisition of assets. The results demonstrate robust positive correlations between these indicators and financial inclusion, indicating that there is transformative potential in formal financial access for women. The paper further analyses the effect of socio-demographic variables, particularly education and age, in determining empowerment outcomes. In this case, more older women are involved in asset accumulation. It is, therefore, a call to understand the complex interaction between financial inclusion and its determinants that are socio-demographic. This study has highlighted actionable policy interventions focused on removing persistent barriers to financial inclusion, which are narrow financial literacy and cultural and digital exclusion. Some of these targeted financial literacy programs, gender-sensitive financial products, SHG infrastructure, and the utilisation of technology in mobile banking to reach underserved regions will bring an inclusive financial ecosystem that empowers women and creates gender equality. The findings are significant to stakeholders, including policymakers, financial institutions, and development organisations, since they can increase economic independence for women by easing the systemic barriers to financial access to contribute to the wider agenda of sustainable development. It supports the knowledge development on the involvement of women empowerment in financial inclusion processes. It will, therefore, lead to building guidelines that are both financial system developments-inclusive-while complementing SDG-5 as a result of achieving gender equality.

**Keywords:** economic empowerment, financial inclusion, gender equality, self-help group-bank linkage programs, socio-demographic factors, sustainable development.



## Exploring Stunting and Its Determinants among School-Going Children in Jammu & Kashmir

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This study investigated the prevalence and determinants of stunting among school-going children in the Reasi district of Jammu & Kashmir, with particular focus on disparities between Scheduled Tribe (ST) and General category children. Using a cross-sectional research design, the study examined 400 children aged 5-10 years, collecting anthropometric measurements and socio-demographic data through structured surveys. Results revealed that 44.16% of children exhibited stunting, with 29.68% moderately stunted and 14.48% severely stunted. ST children showed higher vulnerability, with 48% affected (31.5% moderate, 16.5% severe stunting) compared to General category children (38% affected). Several factors were significantly associated with stunting, including maternal diet during pregnancy ( $p=0.0247$ ), birth timing ( $p=0.0007$ ), and household economic status ( $p=0.0031$ ). Children from Below Poverty Line families showed higher stunting rates (56.98%) compared to Above Poverty Line families (39.17%). The father's education level ( $p=0.0100$ ) and household income ( $p=0.0000$ ) emerged as significant protective factors against stunting. Environmental factors, including cooking area type ( $p=0.0001$ ), demonstrated significant associations with stunting prevalence. The study also found that younger children (ages 6-7) were more susceptible to stunting, suggesting the importance of early intervention. These findings highlight the need for targeted interventions addressing both immediate nutritional needs and underlying socioeconomic determinants, particularly among ST communities. The results emphasise the importance of a comprehensive approach combining nutritional support with broader social and economic development initiatives to combat stunting effectively in this region.

**Keywords:** stunting, school children, child nutrition, socioeconomic determinants

## Impact of Artificial Intelligence in Teaching Learning Era

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The learning process needs to be innovative and creative in order to meet the evolving demands of education. As artificial intelligence (AI) advances in the realm of education, it will assist in processing everyday tasks like teaching and learning. Investigating artificial intelligence (AI) in education, particularly in the context of teaching and learning, is the aim of this project. In several fields, including education, the use of artificial intelligence (AI) technology is becoming more and more apparent. Particularly in the areas of technology, science, math, and engineering, the introduction of AI technology has changed the course of study. However, AI will also alter the nature of education in general. The learning process needs to be innovative and creative in order to meet the evolving demands of education. As artificial intelligence (AI) advances in the realm of education, it will assist in processing everyday tasks like teaching and learning. Investigating artificial intelligence (AI) in education, particularly in the context of teaching and learning, is the aim of this project. Artificial Intelligence (AI) is a technology that has gained interest lately. This technology plays a significant role in supporting a number of work-related tasks, including those related to education. The process of creating a machine that can think and act like a person is known as artificial intelligence (AI). As science and technology advance, teachers' tasks, including correction, student attendance, daily assessments, knowledge explanation, administrative report creation, and other systemic tasks, can be turned over to technological equipment. In order to produce a golden generation with greater character quality and natural intelligence—something that robots cannot do—teachers can save more energy and concentrate more on nonsystemic tasks. While the human mind, particularly that of teachers, produces new information, technology only functions systemically and is automated in response to human directions. The teacher would thus possess unmatched intelligence. Artificial intelligence, which is also the product of human natural intelligence's creative brains, emerged during the Industrial Revolution.

**Keywords:** Artificial Intelligence, Teacher, Machine, Human, Task, Education



## Enhancing Talent Development Management in Organizations Using Artificial Intelligence and Technologies

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Talent Development Management (TDM) plays a pivotal role in building workforce capabilities that are aligned with organisational objectives. Recent advancements in Artificial Intelligence (AI) and related technologies have initiated a paradigm shift in TDM, enabling organisations to optimise talent strategies through personalised, data-driven approaches. This paper examines the integration of AI into key aspects of TDM, including recruitment, learning and development (L&D), performance management, and employee engagement, within the framework of Human Capital Theory (HCT). This study employs a qualitative methodology, leveraging semi-structured interviews, focus groups, and document analysis to investigate the implementation of AI-driven TDM practices across diverse organisational contexts. The findings reveal significant improvements in recruitment through AI-enabled tools that automate resume screening and predict cultural fit. Immersive technologies such as Virtual Reality (VR) and Augmented Reality (AR) enhance adaptive learning experiences, fostering skill development and employee satisfaction. AI-powered performance management systems facilitate real-time feedback, identify high-potential employees, and support career progression, contributing to both individual and organisational success. However, the study also highlights challenges such as resistance to technological adoption, algorithmic biases, and data privacy concerns. These challenges underscore the need for robust ethical frameworks and strategic integration plans prioritising inclusivity, scalability, and alignment with organisational culture and workforce diversity. The originality of this research lies in its comprehensive analysis, which bridges theoretical insights with practical applications of AI in TDM. It advances the discourse on AI in human resource management by addressing existing gaps in the literature and providing actionable strategies for organisations. By embracing AI while maintaining ethical and employee-centred practices, organizations can create a resilient and future-ready workforce.

**Keywords** Talent Development Management (TDM), Artificial Intelligence (AI), Predictive Analytics, Virtual Reality (VR), Augmented Reality (AR), Employee Engagement, Personalized Learning.

## The Impact of AI on Professional Development: Automation and Decision Support in the Workplace

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AI in personalised learning makes it possible to create individualised learning experiences by evaluating each student's performance and modifying course materials to meet their particular requirements. Through automation, data analytics and sophisticated algorithms, Artificial Intelligence (AI) is transforming several fields in the engineering, healthcare, educational and artistic sectors. Learning outcomes and engagement are improved by this method. Similarly, by automatically assessing tests, assignments and even subjective essays and giving real-time feedback, automated grading and assessment lessens the workload for teachers. AI is used by virtual teaching assistants to monitor conversations, respond to common student inquiries and support online learning settings, all of which increase the effectiveness of education. By assisting teachers in creating personalised lesson plans and interactive teaching resources based on learning objectives, artificial intelligence is also revolutionising curriculum development and content creation. AI supports academics in academic research and data analysis by examining big datasets, seeing patterns and formulating predictions, which quickens the discovery rate in various fields. Additionally, it is essential to detect plagiarism, which protects academic integrity by looking for duplicate content in large data repositories. AI removes linguistic barriers in education by translating and supporting languages, enabling smooth communication between teachers and students in many languages. In addition to predicting student achievement and retention, AI-powered systems may identify students who are at risk and provide actions to enhance results. Particularly in industries like engineering and medicine, virtual labs and simulations provide practical teaching in a controlled setting. Businesses can improve decision-making and streamline operations by automating repetitive tasks and using data analytics for decision support. While NLP for documentation expedites administrative work, AI in healthcare enhances diagnosis, treatment, and patient care. Through intelligent automation, AI impacts design and engineering, cyber security, customer service, and HR and recruitment. AI's predictive powers are used in finance for risk management and financial forecasting. Last but not least, AI tools boost creativity and productivity in creative fields by helping with tasks like visual design, content creation, and even music composition.

**Keywords:** Artificial Intelligence (AI), Academics, Research, Education, cyber security, risk



## Artificial intelligence for sustainable plant protection

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Machine Learning (ML) and Artificial Intelligence (AI) within the contemporary context of plant protection signifies a profound and transformative evolution in the domains of precision agriculture and sustainable crop management practices. This abstract endeavours to elucidate the critical roles that these advanced technologies play in the safeguarding of plant health and the enhancement of agricultural productivity levels. It is noteworthy to mention that the utilization of computer applications to address and resolve agricultural challenges first emerged in the year 1983, marking a pivotal moment in the intersection of technology and agriculture. Since that significant milestone, a plethora of innovative approaches have been designed to address a multitude of complex problems encountered within the agricultural sector. Among these technological advancements, AI techniques have been prominently highlighted as instrumental in delivering results characterised by enhanced accuracy and robustness, thus significantly improving the decision-making processes in agricultural practices. From the early identification and detection of plant diseases and pests through the utilisation of advanced image analysis techniques and sensor networks to the implementation of predictive modelling and resource optimisation strategies, it is evident that ML and AI are poised to effectively address both the current and prospective challenges associated with crop protection. These groundbreaking technologies also provide innovative solutions that substantially empower farmers, as well as researchers, to confront and navigate the multifaceted challenges inherent in plant protection endeavours. Various AI methodologies, such as convolutional neural networks, artificial neural networks, and deep learning techniques, have been successfully applied to detect insect pests and diseases across a diverse range of agricultural and horticultural crops, showcasing the versatility and effectiveness of these technologies.

**Keywords:** Machine learning, Artificial intelligence, Neural networks, Plant protection

## The Role of AI-Driven Learning in the Comprehensive Development of Higher Education Professionals: An Empirical Analysis

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Artificial Intelligence (AI) has emerged as a transformative force in the education sector, significantly influencing the professional growth of higher education educators. AI-powered tools revolutionise teaching methodologies by offering personalised learning experiences and real-time feedback. These advancements enable educators to adapt their approaches to meet diverse student needs while fostering their professional development. Additionally, AI automates routine tasks such as grading and administrative duties, allowing teachers to devote more time to student engagement and instructional improvement. Despite certain challenges, this study emphasises the immense potential of AI to enhance professional development and redefine the educational landscape. It examines the opportunities and hurdles AI presents in higher education, highlighting its role in fostering the holistic growth of educators. By leveraging and optimising AI technologies, institutions can maintain a competitive edge while educators deliver high-quality education. This empirical study is based on a sample of 219 higher education professionals and educators. Key factors influencing the role of AI-driven learning in the holistic development of these professionals include personalised learning experiences, data-driven insights, predictive analytics for informed decision-making, and collaborative learning platforms.

**Keywords:** Artificial Intelligence, Higher Education, Holistic Development, Personalized Learning, Data-Driven Insights, Educational Technology



## Innovative AI Pedagogies: Measuring Their Impact on Student Engagement and Achievement

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This study investigates the influence of innovative AI pedagogies on student engagement and academic achievement within diverse educational settings. As artificial intelligence increasingly permeates the educational landscape, understanding its effects on learning outcomes becomes crucial. We employed a mixed-methods approach, combining quantitative assessments of student performance with qualitative surveys to gauge engagement levels. Our findings indicate that AI-enhanced teaching strategies, such as personalized learning pathways and adaptive feedback mechanisms, significantly boost both student engagement and achievement. Furthermore, the research highlights the importance of teacher training in effectively implementing these technologies. The implications of our findings suggest that integrating AI into pedagogical practices can foster a more dynamic and responsive learning environment, ultimately benefiting student success.

**Keywords:** AI Pedagogy, Student Engagement, Academic Achievement, Personalized Learning, Adaptive Feedback, Educational Technology

## Gender, Nature, and Power in Margaret Atwood's *The Handmaid's Tale*: An Ecofeminist Reading

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This research examines the connection between gender, nature, and power in *The Handmaid's Tale* by Margaret Atwood through the lens of ecofeminism. It explores how the oppression of women and the exploitation of nature both arise from the same patriarchal systems. The study is based on Val Plumwood's ecofeminism theory, which critiques unequal dualisms like male/female and culture/nature. These ideas help analyse the interconnected forms of oppression in Gilead's dystopian society. The research highlights how the Republic of Gilead controls women's reproductive roles, reflecting the patriarchal control over natural resources. Infertility and environmental destruction in the story are used as symbols of the harm caused by patriarchy. The Commanders represent the dominance of the system, while Offred's quiet acts of defiance show resistance to this oppression. Atwood uses ecological imagery, such as gardens and flowers, to emphasise themes of control, resistance, and limited freedom. By connecting the novel's themes to real-world issues, the study shows the importance of ecofeminism in addressing modern gender and environmental problems. It argues that *The Handmaid's Tale* not only criticises the exploitation of women and nature but also promotes liberation through ecological and feminist awareness. This research contributes to literature studies by showing how dystopian fiction reflects real struggles and offers ideas for a fairer, more sustainable future.

**Keywords:** ecofeminism, gender oppression, patriarchy, environmental exploitation, dystopian fiction, resistance, liberation.



## Review the effect of ozone on the growth and yield of plants

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Ozone ( $O_3$ ) is a potent atmospheric pollutant that significantly impacts plant physiology, growth, and yield. This review synthesises current research on the effects of ozone exposure on plants, emphasising its dual role as both a stressor and a regulator of plant metabolism. Elevated ozone levels cause oxidative stress, leading to cellular damage, reduced photosynthetic efficiency, and impaired nutrient uptake. These effects often result in stunted growth, lower biomass accumulation, and diminished crop yields. Furthermore, ozone exposure alters the allocation of resources within the plant, favouring defensive mechanisms of overgrowth and reproduction, thereby further reducing agricultural productivity. The review also highlights species-specific responses, where some plants exhibit tolerance mechanisms, including antioxidant production and structural adaptations, while others are highly susceptible. Understanding these effects is crucial for developing strategies to mitigate ozone damage, improve crop resilience, and ensure food security in the face of increasing environmental pollution.

**Keywords:** Ozone, Growth, Yield, Plant, Agricultural productivity, Environmental pollution

## Speech Recognition Technologies: Reducing Language Anxiety and Boosting Confidence

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Speech Recognition Technologies (SRTs), are becoming important tools in language learning, helping to tackle issues linked to language anxiety. Language anxiety affects effective communication and performance and often arises from fears of making mistakes, being judged, or facing difficulties with pronunciation and fluency. This study examines how tools such as Google Speech, Voice Dictation, and Elsa Speak can help reduce language anxiety and improve learner's confidence and academic performance. The research was conducted with 100 undergraduate students in a classroom environment, where Google Speech-to-Text was used as a primary tool to practice spoken language skills. Surveys and classroom observations were conducted to evaluate changes in student confidence and anxiety levels before and after using the technology. The findings showed that SRTs created a positive learning environment by accurately transcribing spoken language, allowing students to recognise and correct their errors without fear of judgment. These tools also supported students from diverse linguistic and cultural backgrounds by accommodating different accents and dialects, making them more inclusive and accessible. Students noted improved confidence during oral exams and presentations, which they attributed to the immediate feedback provided by these technologies. Some challenges were observed, including recognition errors caused by strong accents or noisy settings and a tendency for some students to rely too heavily on the tools instead of developing independent speaking skills. This study demonstrates speech recognition technologies' significant potential in reducing language anxiety. It underscores the importance of incorporating culturally sensitive SRTs into educational settings to ensure benefits for all learners. Recommendations include developing training programs for learners and further research to assess the long-term impact of these tools on language learning and confidence building.

**Keywords:** Speech Recognition Technologies, Language Anxiety, Academic Performance, Technology in Education, Adaptive Learning Tools, Self-Directed Learning.



## Application of Walsh Transformations for Encryption and Decryption of Audio Signals

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This paper explores the use of the Walsh-Hadamard Transform (WHT) in the encryption and decryption of audio signals. WHT, known for its computational efficiency and orthogonality properties, enables the decomposition of a signal into spectral coefficients, which can then be securely masked using a random key. Additionally, the article investigates the application of the Discrete Cosine Transform (DCT) alongside WHT, as well as their combined variant (DCT-WHT), for encrypting and decrypting audio signals. WHT, characterised by its high computational speed, and DCT, known for its high accuracy, demonstrate significant efficiency in the encryption and decryption process. The study provides a detailed algorithm for preprocessing signals, including normalisation, padding signal lengths to the nearest power of two, and applying forward and inverse WHT transformations. A novel masking technique is introduced, leveraging the properties of Walsh basis functions to enhance data security. Practical implementation involves converting input audio signals into WAV format, applying the WHT or the combined DCT-WHT approach, encrypting the coefficients with a random key, and reconstructing the original signal using inverse transformations. The proposed methods ensure reconstruction accuracy exceeding 99.9%, maintaining high fidelity while providing robust resistance to attacks. This approach is particularly effective for the secure transmission of audio data in communication systems, multimedia applications, and other areas requiring robust encryption mechanisms. Additionally, the study explores the possibility of combining WHT with other signal processing algorithms, such as DCT or the Fourier Transform, to further enhance security features. The combined use of these methods improves resistance to attacks through the multi-layer spectral transformation of the signal while retaining computational efficiency and noise resilience. The study highlights the promise of the DCT-WHT approach as a versatile and adaptable tool within modern cryptographic frameworks, offering a simple yet effective solution for the secure transmission and processing of audio data.

**Keywords:** Walsh Transform, encryption, audio signals, combined algorithm, , secure communication, High computational speed

## Artificial Intelligence Applications in Business

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Artificial Intelligence (AI) is revolutionising business operations across industries, offering unprecedented opportunities for efficiency, personalisation, and innovation. This paper explores the diverse applications of AI in business, highlighting its transformative potential and addressing associated challenges. AI enhances operational efficiency by automating routine tasks, optimising supply chains, and streamlining workflows. Robotic Process Automation (RPA) reduces administrative burdens, while predictive analytics improves inventory management and delivery processes. In customer service, AI-driven chatbots and recommendation systems personalise experiences, fostering engagement and loyalty. Additionally, sentiment analysis provides valuable insights into consumer preferences, enabling businesses to tailor their strategies. The integration of AI in decision-making processes has redefined how businesses leverage data. Big data analysis and predictive analytics uncover trends, enhance strategic planning, and mitigate risks through fraud detection and cybersecurity measures. Marketing and sales functions benefit from AI's ability to generate qualified leads, personalise advertising, and predict customer retention needs. AI's impact extends to workforce transformation by augmenting human capabilities and creating new opportunities for upskilling. However, its adoption is not without challenges. Ethical considerations such as data privacy, algorithmic bias, and the need for skilled personnel present obstacles to implementation. Addressing these issues is critical for responsible and effective AI use. The future of AI in business promises even greater innovation, with advancements in quantum computing and robotics poised to expand its applications. As businesses navigate this evolving landscape, embracing AI thoughtfully and ethically will be essential for long-term success. This paper concludes by emphasising the need for continuous adaptation and learning to maximise AI's potential in driving global business transformation.

**Keywords:** AI, business, ethical, cyber security, marketing.



## A bibliometric analysis of the nexus of influencer marketing and social commerce

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This paper explores the transformative impact of influencer marketing and social commerce in the digital era, which is reshaping consumer behaviour and marketing strategies. Influencer marketing uses the persuasive power of online personalities to create authentic connections with audiences, while social commerce seamlessly integrates shopping experiences within social media platforms. Using bibliometric analysis, we examined 285 scholarly publications from 2008 to 2024, revealing a surge in research output and global engagement in these domains. Key findings include the dominance of conference proceedings, top contributing sources such as "Lecture Notes in Computer Science" and "Smart Innovation, System and Technologies," and significant contributions from institutions like Shandong University and Huazhong University of Science and Technology. We identified notable authors like Zhang Y and Kumar S, alongside prolific affiliations like Shandong University and Huazhong University of Science and Technology. The thematic analysis unveiled crucial themes such as marketing strategies, digital platforms, consumer behaviour, and emerging trends, illustrating the dynamic evolution of marketing practices. Collaboration world network analysis highlighted strong research collaborations between countries like the USA, Korea, China, and Spain. This study underscores the growing relevance of influencer marketing and social commerce, offering insights for future research directions, including nano-influencers, AI-driven marketing, interdisciplinary collaborations, global expansions, and longitudinal studies. Embracing these insights can empower marketers and researchers to navigate and capitalise on the evolving landscape of digital marketing strategies effectively.

**Keywords:** Influencer Marketing, Social Commerce, Social Media, Online Influencers, Online Personalities.

## A Review on Bioinformimimetics: Revolutionizing Science through AI Driven Synergy of Bioinformatics and Biomimicry

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Our review work proposes Bioinformimimetics, an emerging interdisciplinary field that synergises biomimetic principles with bioinformatics to redefine the boundaries of material science. This endeavour transcends traditional biomimetics through predictive modelling, molecular simulations, and genetic insights to design highly functional, scalable materials. Biomimicry of nature's intricate structures and processes, bioinformimimetics unlocks new possibilities in the creation of bio-inspired materials, such as resilient nanostructures and bioadhesive surfaces. AI-driven simulations and computational modelling, bioinformimimetics leverages large-scale databases to replicate nature's elegance in design and novelty in tackling long-term hurdles, offering transformative potential in industries ranging from tissue engineering to sustainable manufacturing. This review explores the interplay between bioinformatics, molecular dynamics simulations, and artificial emphasising their role in advancing biomimetic materials. The review also anticipates future trends, including the integration of metagenomics-guided material innovation and biomimicry engineering, positioning bioinformimimetics as a cornerstone for sustainable material science. By leveraging biological mimicry with computational advancements, bioinformimimetics is poised to usher in a new era of high-performance, sustainable, and ethically designed materials that can revolutionise not only material science but also various sectors, from healthcare to environmental sustainability.

**Keywords:** Bioinformimimetics, Biomimetic Materials, Bioinformatics, Artificial Intelligence, Biomimicry



## Artificial intelligence in the study of modern international security

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The integration of artificial intelligence (AI) into the study of contemporary international security represents a transformative shift in understanding and addressing global threats. This paper explores the multifaceted role of AI in enhancing security strategies, improving predictive capabilities, and fostering international cooperation. As geopolitical tensions rise and new forms of conflict emerge, traditional analytical methods often fall short in anticipating and mitigating risks. AI technologies, including machine learning and data analytics, offer advanced tools for processing vast amounts of information, identifying patterns, and generating actionable insights. We examine key areas where AI is making significant contributions, such as threat assessment, intelligence gathering, and crisis management. AI algorithms can analyse social media feeds, satellite imagery, and other data sources to detect early warning signs of conflict or instability. Moreover, the use of AI in cybersecurity has become paramount in protecting state and non-state actors from increasingly sophisticated cyber threats that transcend national borders. The paper also addresses the ethical considerations and potential risks associated with AI in international security. The deployment of autonomous weapons systems, for instance, raises profound questions about accountability, decision-making, and the potential for escalation in armed conflicts. Furthermore, the reliance on AI could exacerbate existing inequalities, particularly if access to advanced technologies is limited to a select group of nations. While AI offers promising solutions for enhancing international security, it is imperative to adopt a balanced perspective that considers both the benefits and potential pitfalls. An international framework for cooperation and regulation is essential to navigate the complex landscape of AI in security, ensuring that it serves as a tool for peace rather than a catalyst for conflict. This paper argues for an interdisciplinary approach to leverage AI effectively in the realm of international security, paving the way for a safer and more stable global environment. In the contemporary landscape of global affairs, the discipline of international security has become increasingly complex and multifaceted. The threats that nations face are no longer limited to traditional military confrontations; they now encompass a wide array of challenges, including cyber threats, terrorism, climate change, and global pandemics. Amidst these evolving threats, artificial intelligence (AI) has emerged as a critical tool, reshaping the way scholars, practitioners, and policymakers approach the analysis of international security. This essay explores the transformative impacts of AI on the study of modern international security, examining its applications, benefits, limitations, and implications for the future.

**Keywords:** International Security, Artificial Intelligence, Scientific Research, Global Threats

## GenAI: Elevate excellence but maintain integrity in science education in Samoa

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Globalisation, digital transformation and the rise of generative AI (GenAI) are reshaping the education landscape in the Pacific, including Samoa. The unauthorised application of GenAI by students is a concern to the university, yet it is well known for its ability to promote personalised learning, improve educational experiences, increase student engagement and support high-quality assessment presentations. While the Samoan language is predominantly spoken in both formal and informal educational contexts, English is used when it comes to assessments at the National University of Samoa. With language difficulties and ongoing literacy issues, university students utilised GenAI to assist in improving academic writing as well as classroom presentations. However, challenges identified in this presentation included overreliance and ethical and pedagogical implications, emphasising the need for proper guidelines and policies to ensure responsible use of the technology. While GenAI has the potential to transform and improve excellence in education, its benefits will only be fully realised if it is implemented responsibly and equitably. This presentation explores the experiences of postgraduate students registered in the course HTE580: Issues in Science Education at the Faculty of Education, National University of Samoa.

**Keywords:** Science education, GenAI, quality education, academic writing, ethical implications



## Exploring the Evolution of Women's Rights and Socioeconomic Development in Afghanistan: Historical Analysis and Policy Implications

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**Objective:** This study investigates the progression of women's rights, cultural representation, and socioeconomic inclusion in Afghanistan from the early 20th century to the mid-1970s. It aims to evaluate how governmental policies and cultural reforms influenced women's empowerment and societal development. **Theoretical Framework:** The study employs feminist theory and historical institutionalism to analyse the intersection of gender, policy, and culture. The frameworks contextualise the evolution of women's roles within Afghanistan's sociopolitical and economic systems. **Method:** A qualitative methodology was adopted, utilising historical documents, policy analysis, and archival data. The resources span pivotal periods, including the reigns of Mohammad Nadir Shah, Mohammad Zahir Shah, and Daoud Khan. **Results and Discussion:** Findings reveal significant strides in women's education, labour market participation, and political representation, despite periods of regression due to sociopolitical upheavals. Government-led initiatives, such as the introduction of co-educational systems and labour market reforms, fostered gradual cultural acceptance of women's public roles. **Research Implications:** This research highlights the critical role of sustained policy interventions and cultural advocacy in advancing gender equity. It underscores the importance of balancing traditional values with progressive reforms. **Originality/Value:** The study contributes a comprehensive historical perspective on Afghanistan's women's rights movement, linking past achievements and setbacks to contemporary challenges. The findings inform policies aimed at fostering inclusive development in similar sociocultural contexts.

**Keywords:** Women's rights, Afghanistan, socio-economic development, education reforms, feminist theory, historical analysis

## The role of blockchain technology in the evolution of Islamic banking

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This article examines blockchain technology's role in improving and evolving Islamic banking. Blockchain, as a new technology, has been able to lead Islamic banks to innovation and better services by providing transparency and security and reducing operating costs. Using data collected between 2013 and 2022, this research has evaluated the impact of blockchain on customer satisfaction, reducing risk and increasing transparency in Islamic banking.



## SDG 3: Promoting Health, Well-Being, and Economic Development using Artificial Intelligence and Technology

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Artificial Intelligence (AI) and technology have emerged as transformative tools in achieving the Sustainable Development Goals (SDGs), especially SDG 3, which strongly emphasises health and well-being. Using a mixed-methods approach that combines qualitative insights and quantitative analysis, this study investigates the potential of AI-driven interventions in enhancing healthcare, mental well-being, and economic development in line with the Sustainable Development Goals. Healthcare stakeholders and AI-driven initiatives provided primary data, and economic reports and global health indices were used for secondary data analysis. Advanced analytical tools provided insights into AI integration's feasibility and impact. Findings suggest that AI enhances healthcare quality and accessibility by improving resource allocation, personalising treatment regimens, and expediting tests. Chatbots and other AI solutions in mental health help enhance treatment outcomes and lessen stigma. Economic advantages of AI-driven projects include creating jobs, lower expenses, and increased productivity due to better public health. The analysis emphasises how crucial it is for everyone to have equal access to AI technology and how strong policy frameworks are required to handle issues like data privacy, restricted access to AI infrastructure in underprivileged areas, and ethical concerns. It concludes that AI can help achieve SDG 3 by promoting economic growth and enhancing health. It suggests funding AI infrastructure, encouraging public-private collaborations, and putting laws in place that strike a balance between ethics and innovation. In order to address difficulties like data privacy, limited AI infrastructure in poor areas, and ethical concerns, the study highlights the necessity of strong policy frameworks and fair access to AI technology. To help accomplish SDG 3, it recommends investing in AI infrastructure, promoting public-private partnerships, and passing legislation that strikes a balance between ethics and innovation.

**Keywords:** Artificial Intelligence, Sustainable Development Goals (SDG 3), Health, Well-Being, Economic Development, Technology Integration

## Evaluating Efficiency of Free Automated Plant Identification Applications

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Professional ecologists and curious amateurs alike can benefit from the ease and speed of automated species identification using widely accessible and reasonably priced mobile phone applications, which eliminate the need for identification keys and field guides. It is commonly known that machine learning is becoming more accurate. However, it is still unknown if and under what conditions free mobile phone applications can accurately identify plants to the species level in actual field settings. We use 875 properly recognised photos of 270 species from 200 genera to test five widely used and free plant identification programs. In all applications, 70% of images were accurately identified with the first proposal, and 86% of images were correctly identified in the top five choices. Each application's kind of plant (woody, herbs, grasses, shrubs, ferns) significantly influenced identification performance. While exposure and focus were not crucial for certain applications, visual saliency was. Applications did a good job; at least one of the top three accurately identified 96% of the photos as their initial recommendation. We conclude that free phone-based plant identification applications are legitimate and helpful resources for anyone wishing to interact with nature and for those seeking quick identification, subject to some limitations.

**Keywords:** Mobile Phone Application, Machine learning, Plant Identification



## Attitude and Perceptions of Academicians on Artificial Intelligence Technology in Plateau State, Nigeria

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The rapid advancement of Artificial Intelligence (AI) technology has transformed various sectors globally, including education, research, and innovation, offering unprecedented opportunities for efficiency and enhanced productivity. In Plateau State, Nigeria, the adoption of AI technology in academic institutions remains a burgeoning area, with academicians playing a pivotal role in its integration into teaching, learning, and research. This study investigates academicians' attitudes and perceptions of artificial intelligence technology in Plateau State, Nigeria. A survey design was employed. Using a stratified random sampling technique, 150 academicians were sampled from various tertiary institutions in Plateau State and participated in the study. A questionnaire was used to obtain data from the participants. The data was analysed using descriptive statistics, and Chi-square and logistic regression techniques were used for analysis with the aid of SPSS version 26. Results showed that the majority of the academicians had poor attitudes towards artificial intelligence technology and believed that it would make students and academicians lazy, though it has the potential to impact the field of education greatly. The level of awareness on artificial intelligence technology is very low. They also perceived AI technology as a tool that could enhance teaching and learning processes, improve research outcomes, and increase efficiency in administrative tasks. However, some concerns were raised about the ethical implications of AI technology and its potential to replace human labour. The result further indicated that Gender and level of education have a significant impact on academicians' attitudes and perceptions of academicians on artificial intelligence technology in Plateau State, Nigeria. However, Age and marital status were not important. The study recommended the need to organise awareness programs, workshops, and seminars aimed at educating academic staff on the benefits, risks, and ethical considerations of AI. This will help demystify AI and reduce scepticism by highlighting its potential to enhance teaching, research, and academic administration.

**Keywords:** AI, Attitude, Perception, Technology

## **Applications of Mathematical techniques to analyse the development of research related to artificial intelligence in the last two decades**

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The present paper attempts to analyse the development of research related to artificial intelligence in the last two decades using mathematical tools and techniques. The study is based on data analysis of research publications related to AI, for which the details are available and accessible in digital form.



## **Resource Management, Knowledge Transmission and Adaptation Techniques of Backyard Farming as an Environmental Income of the Indigenous People in the Philippines**

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Indigenous people can sustain themselves through various activities, including backyard farming as a source of environmental income. This qualitative descriptive research will analyse the capability of an Aeta community to perform backyard farming as an environmental income source. The study utilised semi-structured interviews to gather information from seven (7) informants. The interviews were guided by research questions validated by experts, focusing on the informants' capabilities in performing backyard farming as an environmental income. Informants were selected using a purposeful sampling technique. The gathered information was analysed using the Braun & Clarke thematic analysis approach. Three (3) primary themes and nine (9) subthemes were found, namely: (1) Optimizing Different Resources (managing crops, managing water, utilising equipment and tools); (2) Acquiring Knowledge through Different Sources (obtaining traditional knowledge, learning through community, gaining knowledge from external resources); and (3) Using Resilient Strategies (adapting to climate change, making use of comprehensive backyard farming strategies, innovating resources). Indigenous people can earn an environmental income through backyard farming through resource management, knowledge transmission, and adaptation techniques.

**Keywords:** Indigenous People, Backyard Farming, Environmental Income

## Comparative evaluation of biogas production from Cow Dung, Neem seed and Groundnut shell" to "production of biogas from Cow Dung, Neem seed and Groundnut shell"

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Biogas, a renewable energy source primarily composed of methane and carbon dioxide, is produced by the microbial breakdown of organic materials in the absence of oxygen. This study investigates the production of biogas through the anaerobic digestion of organic substrates, specifically focusing on three substrate combinations: Cow Dung alone, Cow Dung mixed with Neem seed, and Cow Dung mixed with Groundnut shell for maximising biogas yield and to identify the optimal process parameters, such as temperature and pH, that enhance anaerobic digestion efficiency. The results of the experiments revealed that the combination of Cow Dung and Groundnut shell yielded the highest volume of biogas, producing 1.14 cm<sup>3</sup>, compared to 0.84 cm<sup>3</sup> for the Cow Dung and Neem seed mixture, and 0.64 cm<sup>3</sup> for Cow Dung alone, respectively. The highest volume of biogas obtained from the combination of Cow Dung and Groundnut shell is attributed to the balanced Carbon-to-Nitrogen (C/N) ratio present in the Cow Dung and Groundnut shell combination, which is essential for supporting the growth of microorganisms responsible for breaking down organic matter efficiently during anaerobic digestion. The study's findings revealed that using these materials can provide a promising solution for waste management and sustainable energy production.

**Keywords:** Biogas; Cow Dung; Neem seed; Groundnut shell; bio-digester; Waste Management.



## Enhancing Controlled Substance Security in Community Pharmacies with AI and Technology in Nigeria: A Review

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The increasing concern over controlled substance diversion and misuse has highlighted the need for more effective security measures in community pharmacies, particularly in developing countries such as Nigeria. This review explores the role of artificial intelligence (AI), blockchain, and the Internet of Things (IoT) in enhancing the security of controlled substances within pharmacies. The paper discusses the importance of securing controlled substances, the limitations of traditional security methods, and the emerging technological innovations that can address these vulnerabilities. It also examines the regulatory frameworks in Nigeria, the challenges faced in adopting advanced technologies, and global trends in drug diversion. AI-powered predictive analytics, blockchain for transparency, and IoT-enabled real-time monitoring systems are identified as promising solutions for improving security, reducing human error, and ensuring compliance with regulatory standards. The review also highlights the challenges of technology adoption, including high costs, data privacy concerns, and resistance to change. Finally, the paper presents recommendations for future research, emphasizing the need for studies on the long-term impacts, cost-benefit analyses, and the integration of advanced technologies into existing pharmacy systems. The findings suggest that adopting these technologies is crucial for the future security of controlled substances in pharmacies and the protection of public health.

**Keywords:** AI, controlled substances, drug diversion, pharmacy security, real-time monitoring and regulatory frameworks.

## Transforming Academia and the Professional Sector: The Role of AI

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Artificial intelligence (AI) and advanced technological innovations are transforming the educational and professional sectors by increasing operational efficiency, improving decision-making frameworks, and promoting novel methodologies. This study explores the integration of AI into educational and professional domains, emphasizing instructional methodologies, learning dynamics, academic inquiry, and workplace activities. The primary objective is to examine how AI-driven tools and technologies transform educational institutions and professional sectors while identifying the opportunities and challenges presented. The analysis applies a mixed-methodological strategy, fusing a review of scholarly works alongside case investigations from educational systems and industry sectors. The process of data collection entailed the administration of surveys and the execution of interviews with educators, learners, and practitioners to gather both qualitative and quantitative perspectives regarding the application of artificial intelligence and its perceived impact. AI serves as a pivotal catalyst in academia by streamlining administrative functions, personalising educational experiences, and enhancing research productivity, while in professional domains, it promotes automation, workflow optimisation, and data-informed decision-making, albeit with challenges including a gap in AI implementation attributable to differing infrastructural and digital literacy levels. Suggestions: developing ethical guidelines for AI deployment, offering training programs to bridge skill gaps and investing in equitable access to AI technologies to reduce disparities. The integration of AI and technology toward academia and professional fields promises significant advances in innovation and productivity, necessitating strategic collaboration among policymakers, educators, and industry leaders to effectively navigate challenges and promote inclusive and sustainable implementation.

**Keywords:** Advanced technological innovations, AI-driven, artificial intelligence (AI), decision-making framework, workflow optimisation



## Effects of technological innovations on economic growth in Nigeria

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This paper explores the effects of technological innovations on economic growth in Nigeria, a country marked by a complex interplay of traditional practices and modern technological advancements. As Nigeria seeks to diversify its economy and reduce its dependence on oil, understanding the role of technology becomes crucial. The simple regression analysis will be used to do the ordinary least square econometric analysis in this study to analyzed and uncover the relationship between the topic variables, particularly information and communication technology, educational technology innovation and banking technology innovation. Findings indicate that technological innovations have positively and significantly contributed to Nigeria's economic growth. However, challenges such as inadequate infrastructure, limited access to funding, and a skill gap among the workforce hinder the full potential of these innovations. The paper concludes with policy recommendations to foster an environment conducive to technological growth, including investment in education and infrastructure, and promote public-private partnerships. Ultimately, this study underscores the critical need for Nigeria to harness technological innovations to stimulate sustainable economic growth and development.

**Keywords:** Technological, Innovation, economic, growth, Nigeria

## Challenges and Opportunities of AI Implementation in Education Systems of Rural India

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Artificial intelligence (AI) presents transformative opportunities to address the multifaceted challenges in rural education systems of India. This paper examines the dual dimensions of AI implementation: the challenges stemming from infrastructural deficiencies, socio-economic disparities, and cultural resistance, alongside the opportunities AI offers in bridging educational gaps, enhancing learning outcomes, and fostering inclusivity. Adopting a descriptive research design based solely on secondary data and literature review, this study synthesizes findings from existing academic research, policy documents, and global case studies. The analysis highlights the critical need for targeted investments in digital infrastructure, policy interventions, and the development of culturally tailored AI solutions. The paper concludes by outlining actionable recommendations for stakeholders and identifying areas for future research to scale AI-driven educational innovations in rural contexts.

**Keywords:** Artificial Intelligence in Education, Rural Education Systems, Educational Technology, Digital Inequity, Policy Support, AI Opportunities, Socio-economic Challenges



## Re-Occurrence of Ethno-Religious Conflicts in Jos North Local Government Area, Plateau State, North Central, Nigeria

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Conflict is an inherent issue in human societies, often resulting from political, economic, and social instability linked to poor governance and exacerbated ethnic or religious differences. This study examines the re-occurrence of ethno-religious conflicts in Jos North Local Government Area, Plateau State, Nigeria, exploring the socio-political and economic factors contributing to these tensions. Using a mixed-methods approach, data were collected through questionnaires and interviews from a diverse sample of 398 respondents, revealing key challenges in implementing peace strategies. The findings highlight that ethnicity, nepotism, and corruption significantly hinder conflict resolution efforts, with 52.4% of respondents identifying ethnic divisions as the primary challenge. The study further shows that while strategies such as community policing and educational programs on tolerance are recognised as potentially effective, deep-rooted issues and resource mismanagement continue to impede progress. Additionally, respondents expressed mixed views on the effectiveness of training security personnel and the need for adequate funding for peace initiatives. The study concludes that ethno-religious conflicts in Jos North persist due to significant barriers such as ethnicity, nepotism, and corruption. It emphasises the importance of understanding the interplay between historical grievances and socio-economic disparities that sustain violence. In response, the recommendations focus on strengthening community engagement, promoting educational programs on tolerance, and addressing corruption to foster trust and cooperation among diverse groups.

**Keywords:** Ethno-religious conflict, Jos North, Nigeria, community policing and corruption

## **Agritech in India: Harnessing Opportunities, Addressing Challenges, and Exploring Future Prospects**

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Indian agriculture is undergoing a dramatic transformation due to advancements in agritech, which include technologies like blockchain, the Internet of Things (IoT), and precision farming. Reduced productivity, inefficient use of resources, and disjointed supply chains are some of the long-standing problems that these technologies promise to solve radically. This study delves into the potential of Agritech in India to improve farm productivity, optimise resource utilisation, and enable sustainable agricultural practices, exploring its breadth in the process. Low levels of digital literacy, insufficient infrastructure, and governmental restrictions are some of the important hurdles that are discussed. To give policymakers, entrepreneurs, and farmers practical insights, the research employs a multidisciplinary approach to examine case studies and emerging trends. Ensuring equal access to Agritech solutions requires supportive policies, capacity-building programs, and adequate infrastructure, according to the findings. Thus, the study hopes to add to the ongoing conversation about how India may use technology to improve food security, rural development, and economic growth.

**Keywords:** Agritech, Precision Farming, Sustainability, Indian Agriculture, Technological Adoption and Food Security



## Artificial Intelligence Research in Indian Universities: Opportunities and Challenges

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In order to promote innovation, academic research must now incorporate artificial intelligence (AI), which has become a disruptive force in many businesses. AI research is being embraced by Indian colleges more and more, providing chances to tackle domestic and international issues in fields like education, healthcare, and agriculture. This study examines the state of AI research in Indian institutions, emphasising the prospects offered by industrial collaborations, government programs, and a growing emphasis on multidisciplinary research. Significant obstacles still exist, nevertheless, such as a lack of money, gaps in the infrastructure, a lack of skilled workers, and moral dilemmas. The report highlights that in order to get past these obstacles and maintain India's competitive advantage in the global AI ecosystem, academics, businesses, and policymakers must work together strategically. By tackling these issues, Indian academic institutions can establish themselves as important players in the creation of moral, inclusive, and significant AI technology.

**Keywords:** Artificial Intelligence, Indian Universities, AI Research, Higher Education, Interdisciplinary Research, Industry-Academia Collaboration, and AI Infrastructure

## Creating ingenious dynamic novelty with new perspectives for classifying the applications and exhibiting the implications with the integration of AI technologies in business management and e-commerce: A theoretical and review-based research study

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The business world is becoming more and more interested in AI technology due to its quick development. AI is the scientific and technical discipline of building intelligent machines and computer systems. There is a broad integration of AI into many facets of daily life and corporate activities. The main purpose of this article is to explore the value of AI as an ingenious dynamic novelty that simulates human intellect by thinking like a human and represents several applications and implications of AI technologies in business management and e-commerce within the Asian and Bangladeshi contexts. Current improvements in AI, along with ongoing advancement in e-commerce, have made it feasible to establish new forms of collaboration and integration, which is a significant competitive advantage that can be used by corporate management activities. This study was a literature review conducted by collecting data from various articles, scientific journals and websites relevant to the topics discussed. The findings of the research study demonstrated that the applications of AI and the beneficial effects in business management and e-commerce have the potential to greatly improve operational process efficiency and bring businesses more value that will enhance their competitiveness and productivity. The process of business management also needs to be creative and logical, and the emergence of generative AI is certainly a good fit for this need. Here, I will briefly discuss the future prospects of generative AI in business management and the issues that managers still need to address in order to fully utilize the capabilities of generative AI. It studies the application of AI in areas of recommendations; envision search, AI assistants, and optimum pricing. This study examines the significant ways in which AI supports and shapes the development of related sectors. The study concludes the worth and significant impact of AI on the operations, management and performance of the workplaces.

**Keywords:** Artificial Intelligence, applications, implications, integration, business management, e-commerce



## How do Student Leaders in a Teachers' College Cope with Stress?

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As stress becomes disturbingly high among college students, it becomes one of the common problems that is brought about by their demanding schedules. This qualitative-descriptive research aims to describe how student leaders in a Teachers' College cope with stress. Eight (8) student leaders were identified using purposeful sampling. A duly validated semi-structured interview guide was used to gather data through online in-depth interviews. Three (3) significant themes and thirteen (13) meaningful categories emerged after using a thematic approach to analyse the data, namely: (1) stressors (organizational, academic, mental, financial, and academic-related support); (2) effects of stress (emotional, physical, and academic); and, (5) coping strategies (emotional support, spiritual coping, goal setting, physical care, and recreational coping). As student leaders balance both academic and leadership roles, they have to skillfully manage stress through their effective coping strategies.

**Keywords:** Student Leader, Stress, Coping Strategies, Effects of Stress, College Students

## Contextualised strategies of elementary school teachers in teaching IP learners: an exploratory study

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Contextualised teaching strategies are instructional approaches that relate learning to a specific environment, scenario, or application area to target relevant skills and aid students in comprehending the material. This study explored the various contextualised teaching strategies employed by six (6) elementary school teachers in their way of teaching Indigenous People (IP) learners. This study employed a descriptive Qualitative Research design. An in-depth interview was also utilised to conduct the study, and thematic analysis was used to evaluate the data acquired. Two significant themes emerged, namely the Integration of local materials and the Glocal Approach; likewise, three meaningful sub-themes were identified under the integration of local materials, namely Reading Materials, Modules, and Contextualized storybooks, while four essential sub-themes fall into the Glocal Approach, which is the Use of Springboard, Differentiated Instruction, One-on-one sessions, and Equity Pedagogy. The teaching strategies formed the foundations of the teacher-student relationship and enabled both informants and IP learners to achieve their academic objectives while also creating a more suitable learning environment and eradicating the stereotype of having cultural minority members in the class. Nonetheless, presenting IP learners with strategic approaches within their setting aids their learning process by inspiring interest, curiosity, motivation, and engagement with knowledge.

**Keywords:** Contextualized, Teaching Strategies, IP learners, Glocalization, Instructional, Materials



## Students' Views on Using Canva as an All-In-One Tool for Creativity and Collaboration

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As technology continues to be integrated into the field of education, many students and teachers turn to digital tools to enhance their learning and teaching experience. Among these tools is Canva, a web-based graphic design platform. This qualitative descriptive study seeks to investigate the views of students on using Canva as an all-in-one tool for creativity and collaboration. It was conducted among eight (8) Bachelor of Secondary Education (BSED) major in Social Studies students who were identified through a purposeful sampling technique. The students were asked to write narratively in a written interview questionnaire based on Graham Gibbs' reflective cycle that was created using Google Docs. The analysis revealed three (3) main themes: unique features (user-friendliness, diverse applications, and efficient collaboration), positive effects on creativity and collaboration (continued usage, enhanced skills, and increased satisfaction), and drawbacks (application's limitations and users' limitations). The results demonstrated that students have predominantly positive opinions of Canva. It enables them to unleash their creativity, optimise collaboration, and produce visually captivating designs. However, they also acknowledged that despite its user-friendliness and comprehensive features, Canva has certain disadvantages that may come from the application and the students themselves. Factors like overreliance on the application and weak connectivity may pose a challenge to their design process. Nevertheless, Canva remains a valuable digital tool for students in enhancing their educational endeavors.

**Keywords:** Canva, students, creativity, collaboration, education

## "Exploring the Impact of AI on Academic Excellence and Professional Advancement"

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Artificial Intelligence (AI) and advanced technologies are revolutionizing both academic and professional landscapes. In education, AI enhances personalized learning, optimizes administrative tasks, and supports innovative research methodologies. For professionals, AI streamlines workflows, improves decision-making, and facilitates continuous skill development. This paper explores how AI tools and emerging technologies contribute to academic excellence and professional advancement. The goal is to understand the synergy between AI and technology to foster better educational outcomes and career growth.

**Keywords:** AI in Education, Professional Development, Technology in Academia, Personalized Learning, AI-driven Innovation, Skill Advancement, Automation, AI Ethics, Workforce Transformation, Educational Technology.



## The role of AI in co-teaching with humans

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Putting Artificial Intelligence (AI) into schools has created new opportunities for co-teaching, in which AI works with human teachers to improve student outcomes. AI-powered tools help human teachers by doing boring, repetitive tasks like attendance, grading, and office work. This gives teachers more time to focus on individualised lessons and creative ways to teach. These systems also look at how well each student is doing in real time, finding areas where they need to learn more and making sure they get the help they need. This flexibility makes sure that every student gets instruction that fits their level of understanding and speed, creating a welcoming classroom environment. AI's job is not just to automate tasks; it also creates dynamic learning environments. Intelligent tutoring systems and virtual assistants, for example, can help students whenever they need it by answering their questions and walking them through difficult subjects. At the same time, human teachers bring emotional intelligence, cultural context, and the ability to motivate and guide students, which AI does not have yet. This partnership strikes a balance between efficiency and empathy, providing a well-rounded learning experience. Even though it has benefits, using AI to help teach raises ethical and practical concerns. To keep things fair and safe, we need to deal with problems like algorithmic bias, data privacy, and relying too much on technology. We need to rethink traditional ways of teaching and train teachers to work well with AI systems because the role of teachers is changing in classrooms that use AI.

**Keywords:** Artificial intelligence, Co-teaching, learning, teaching

## The Digital Patient: Revolutionizing Dentistry with Imaging Science

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Dental imaging has undergone rapid technological advancements in recent years. Most X-ray-based diagnostic technologies have transitioned to digital formats, enabling low-dose 3D computed tomography imaging. Additionally, innovative optical imaging techniques are now increasingly used in therapeutic applications for dental patients. By integrating and manipulating diverse digital image data, clinicians can efficiently plan and simulate treatments on-screen, utilize 3D-printed models and tools for precise implementation of virtual plans, and monitor treatments over time. However, a lack of knowledge about digital technologies and artificial intelligence in clinical practice persist, potentially leading to errors or slowing their adoption. This work aims to provide an overview of the digitalisation of dental imaging techniques and to equip dental professionals with insights into the digital tools available for patient treatment follow-ups.

**Keywords:** Artificial intelligence in dentistry Digital patient , Digital dental imaging.



## Digital Implant Planning and Guided Implant Surgery

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Digital implant planning and guided implant surgery have transformed the field of dentistry, enhancing precision and outcomes. By integrating advanced imaging techniques, such as Cone Beam Computed Tomography (CBCT), with computer-aided design and manufacturing (CAD/CAM), clinicians can create detailed virtual models of a patient's anatomy. This allows for meticulous planning of implant placement, taking into account factors such as bone density and anatomical landmarks. Guided surgery utilizes custom surgical guides, developed from the digital planning phase, to ensure accurate positioning of implants during the procedure. This approach not only minimizes surgical errors but also reduces the time required for surgery and recovery. Additionally, the ability to visualize and simulate the treatment beforehand aids in patient communication and consent. Despite the benefits, challenges such as the need for comprehensive training and knowledge of digital technologies persist in clinical practice. Continued education and integration of these tools will be essential for maximizing the advantages of digital implant planning and guided surgery, ultimately improving patient outcomes in dental implantology. The aim of this work is to provide an overview of digital implant planning and guided implant surgery, highlighting their impact on clinical practice and patient outcomes.

## Artificial intelligence and technology in academia and profession

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In the information age, the advancement of artificial intelligence is booming and increasingly entwined with economic life, a trend that is unavoidable for future social development. Additionally, science and technology cannot be separated from education. In academia, machine learning and artificial intelligence (AI) technologies are becoming more and more common. Artificial Intelligence (AI) is now at the forefront of student education due to the quick development of technology. The significance of artificial intelligence is indescribable, as it facilitates the development of critical skills and executes numerous intricate tasks with ease. It gives students individualized learning paths. With the aid of AI, it has significantly enhanced many students' learning styles and assisted teachers in adopting cutting-edge pedagogical strategies. The introduction of AI in education will bring new products, advantages, and challenges for educators and schools. Future employment for academics is probably going to be impacted by the growing potential of artificial intelligence (AI).

**Keywords:** Artificial intelligence, education, technology, learning.



## Predicting Heart Attack Risk Using Machine Learning: A Comparative Study of Logistic Regression and Random Forest Algorithms

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Accurately predicting heart attacks using machine learning algorithms represents a significant advancement in medical diagnostics, enabling enhanced early detection and preventive strategies. This study focuses on developing and evaluating predictive models based on Logistic Regression and Random Forest algorithms to identify individuals at high risk of heart attacks. Utilizing a comprehensive dataset containing critical features such as age, gender, blood pressure, cholesterol levels, and other clinical indicators, the models were trained and validated through a robust data-splitting methodology. Logistic Regression was employed to analyse linear relationships between predictors and heart attack likelihood, providing interpretable coefficients that highlight the significance of each feature. Additionally, Random Forest was utilized to capture complex, non-linear interactions among variables, aiming to improve predictive accuracy. This research incorporates 12 key medical parameters, including age, sex, chest pain type, resting blood pressure, cholesterol levels, obesity, fasting blood sugar, resting electrocardiogram results, maximum heart rate, and exercise-induced angina. The findings demonstrate the potential of machine learning techniques to enhance the prediction of heart disease risk, contributing to more effective clinical decision-making and preventive care.

**Keywords:** Machine Learning, Logistic Regression, Random Forest, Heart Attack Prediction, Dataset

## Artificial Intelligence in Environmental Science: Innovations and Challenges

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Artificial Intelligence (AI) possesses substantial transformative capabilities in tackling paramount environmental challenges, encompassing climate change, biodiversity degradation, pollution management, and sustainable resource utilization of plants. This manuscript conducts a comprehensive examination of AI applications within these spheres, accentuating progressions in monitoring, modelling, and decision-making processes. Ultimately, we delineate prospective avenues to augment the responsible and productive integration of AI in environmental science. Artificial Intelligence (AI) is fundamentally altering the landscape of environmental science by facilitating groundbreaking solutions to urgent ecological dilemmas such as climate change, plant-microbe interactions, biodiversity preservation, and Plant-based drug discovery. This review investigates the transformative applications of AI, featuring sophisticated climate change adaptation, weed identification and management, habitat delineation, and conservation aspects in plants. Techniques in machine learning and deep learning have demonstrated their critical role in the analysis of extensive datasets, forecasting environmental patterns, and guiding data-driven decision-making processes. To mitigate these challenges, future research endeavours must prioritize the development of interpretable AI models, enhancement of algorithmic energy efficiency, and promotion of interdisciplinary collaborations. By harmonizing technological progress with sustainability objectives, AI harbours the potential to bolster global environmental resilience and conservation initiatives of plants significantly.

**Keywords:** Artificial intelligence, Climate change, Biodiversity degradation, Pollution management.



## Exploring the Role of Technology in Enhancing Accounting Practices: AIS Adoption Among SMEs in Mauritius

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This study explores the factors influencing the intention to adopt Accounting Information Systems (AIS) among Small and Medium Enterprises (SMEs) in Mauritius, using the Technology-Organization-Environment (TOE) framework and the Technology Acceptance Model (TAM). The adoption of AIS is inherently connected to technological advancements, particularly in the context of artificial intelligence and digital innovations, which have transformative potential for professional practices. By focusing on SMEs in Mauritius, this study investigates the key drivers of AIS adoption and the readiness of these organisations to integrate such technologies into their operations. The findings aim to contribute to the broader view on how technology shapes professional landscapes and supports organisational efficiency and growth. Data for this research were collected through surveys administered to 150 SME owners in Mauritius. The data were analysed using SPSS V26.0 software to identify the determinants impacting AIS adoption. The results reveal that competitive pressure, perceived ease of use, perceived behavioural control, and perceived benefits significantly influence SMEs' intention to adopt AIS. However, factors such as relative advantage, perceived usefulness, firm size, and perceived risks were found to have an insignificant effect on adoption intentions. This study's findings are based on the specific context of Mauritius, which may limit the generalizability of the results to SMEs in different regions or industries. Future research could expand the sample size or use longitudinal studies to provide a more robust understanding of AIS adoption. From a practical perspective, the study offers valuable insights for policymakers and business leaders to promote AIS adoption by addressing critical factors like competitive pressure and ease of use. Increased AIS adoption can enhance operational efficiency, improve business decision-making, and foster economic growth in Mauritius. This research adds to the literature by applying the TOE and TAM frameworks in the context of AIS adoption among Mauritian SMEs.

**Keywords:** Accounting Information Systems (AIS), SMEs, Adoption, TOE Framework, Technology Acceptance Model (TAM)

## The Role of Social Media in Transforming Communication and Learning in Distance Education

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This study's insights into social media as a communication tool in university education offer valuable implications for distance learning. In a remote learning context, where face-to-face interaction is limited, social media becomes essential for facilitating communication and engagement. The positive correlation between perceived usefulness, information quality, and ease of use with communication efficacy suggests that students who find social media beneficial and user-friendly experience improved communication, which is critical in distance education. Platforms like Facebook and WhatsApp, highlighted in the study for group work and peer interactions, are especially relevant for distance learning. These platforms help bridge the gap left by the absence of in-person discussions, enabling students to collaborate, share resources, and support each other remotely. The study's finding that social media use can enhance students' performance and grades further underscores its value as a supportive tool in distance education, where students often require extra resources and peer encouragement to succeed. This research highlights the potential for technology, in this case social media, to overcome challenges in distance education, making it a relevant contribution to the impact of technology in academia. By showing how students leverage social media for learning, this study suggests that educational institutions could consider formally integrating social media into distance education models, not only for communication but also as an academic resource that can boost learning outcomes. Future research could expand on these findings by examining specific social media tools' roles in distance learning, particularly in facilitating access to materials, supporting discussions, and enabling real-time interaction—core elements of a successful remote education experience.

**Keywords:** Social Media in Education, Distance Learning, Communication Efficacy, Academic Performance, Perceived Usefulness



## Challenges of artificial intelligence and technology in the Indian education system

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India produces more graduates than other countries because it is the most populous country in the world. Artificial intelligence and technology help improve education quality in terms of progress and strategies that stimulate knowledge and self-confidence among students and the teacher community. Lack of infrastructure facilities in educational institutions leads to backward educational growth and standards. Also, huge investments are needed to run the institutions, and new strategies should be adopted for future betterment. Unqualified teachers and professors worked in educational institutions for long days; they were only engaged and completed the syllabus with proper explanations to the student community. Guest lecturers were selected to complete the syllabus on a contract basis. Moreover, due to financial deficiency, the Indian economy faced more difficulties in introducing new innovations. Government institutions have failed to appoint qualified teachers and professors to institutions and implement new technology and AI throughout the country.

**Keywords:** Artificial Intelligence, Guest Lecturer, Strategy, Economy, Institutions

## The Impact of Eco-Friendly Fibers on the Sustainable Future of the Textile Industry – An Overview

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The market for man-made fibres will be significantly impacted by the growth of sustainable fibres, especially fibres like polyester, nylon, and acrylic, which are widely used in the textile industry but have serious environmental problems. The detrimental effects of man-made fibres, primarily manufactured from petrochemicals, on the environment have drawn criticism. High energy use, greenhouse gas emissions, and the discharge of microplastics into the environment are all part of the production process for these fibres. As producers and customers look for more ecologically friendly options, the development and expansion of sustainable fibres may result in a decline in the market for these damaging materials. Fibres like Mycotex, Pinatex, and Orange Fiber are expected to become more developed and used as the fashion industry looks for sustainable substitutes for conventional fabrics. These fibres reduce waste and the demand for virgin resources by using waste goods, which promotes a circular economy. These fibres generate new revenue streams and open up new markets for sustainable materials by enhancing agricultural by-products. The need for sustainable fashion will only increase as customer's awareness of environmental issues grows. The broad use of these sustainable fibres is hampered despite their many advantages. Three important concerns must be addressed-lowering prices, guaranteeing consistent quality, and scaling production to meet global demand. The increasing focus on sustainability will probably influence the market for man-made fibre in the future. The market share of conventional man-made fibres may decrease as sustainable fibres gain popularity. None-the-less, this change offers the textile sector a chance to develop and adapt, resulting in a more robust and sustainable market advantageous to the economy and the environment.

**Keywords:** Sustainable Fibres, Microplastics, Orange Fibre, Man-Made Fibre And Minimising Waste



## Artificial Intelligence and Technology in Academia and Profession: Impacts and Implications for Education in NEP-2020

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The integration of artificial intelligence (AI) and technology in academia and professional sectors aligns with the transformative vision outlined in India's National Education Policy (NEP) 2020. This paper explores AI's multifaceted role in personalizing education, enhancing learning outcomes, and automating administrative processes, thereby promoting equity, inclusivity, and multidisciplinary learning. By examining AI-driven teaching tools, virtual assistants, and adaptive learning systems, the research highlights how technology bridges educational disparities and empowers educators. In the professional sphere, AI fosters productivity and skill enhancement through intelligent automation and data-driven solutions. Ethical challenges, such as data privacy and algorithmic bias, are addressed to ensure responsible AI adoption. The paper emphasizes the need for capacity building among educators and continuous AI integration to achieve NEP-2020's goal of fostering innovation and preparing students for evolving professional demands. Recommendations include enhancing AI-driven curricula, fostering public-private partnerships, and establishing ethical guidelines for AI use. This integration positions India's education system to adapt to global advancements, driving sustainable growth and societal progress.

**Keywords:** Artificial Intelligence, NEP-2020, Technology in Education, Personalized Learning, Professional Development, Inclusive Education, Ethical AI, Multidisciplinary Learning, Skill Enhancement, AI-driven Curriculum.

## Artificial Intelligence and Technology in Academia and Profession

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Since artificial intelligence makes it easier to gain critical skills and performs many complex tasks with ease, its significance is unfathomable. It gives pupils individualised learning routes. You must comprehend how artificial intelligence is used in teaching. AI has greatly improved the learning methods of many pupils and helped teachers use innovative teaching techniques. Artificial intelligence lowers the possibility of dangers in a number of processes because it evaluates datasets in great detail and generates more accurate results. AI gives students targeted help in a certain subject. by using artificial intelligence in their day-to-day activities. The fact that AI in education provides flexible learning options that improve student learning is one of its primary advantages. Instead of spending more time giving students homework, this enables teachers to concentrate on instructing students more successfully. Learning and comprehending foreign languages is made possible for pupils by artificial intelligence and technology. Students are given the opportunity to learn outside of the classroom and at their own speed. Through interactive sessions, personalised learning opportunities, interactive material creation, and prompt support, AI improves student learning. AI helps people learn from their mistakes by giving them quick feedback. Artificial intelligence facilitates communication between students and online instructors, allowing for a comfortable learning environment. Artificial intelligence facilitates communication between students and online instructors, allowing for a comfortable learning environment. By allowing students to acquire knowledge and skills, artificial intelligence (AI) in education can support their academic and professional development.

**Keywords:** Artificial Intelligence, Education, Technology



## From Being Silent to Become Voiced: Identifying Personal Conflict to Ensure Social Justice in The Color Purple

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Alice Walker's *The Color Purple* portrays a powerful transformation journey from silence to self-expression. This paper examines Celie's progression from a victim of systemic oppression encompassing gender, racial and sexual inequalities to a self-empowered individual who reclaims her identity and agency, by exploring the intersection of personal trauma and social structures. The study highlights the transformative impact of storytelling in building individual resilience and fostering community solidarity. Framed within the Sustainable Development Goals, the analysis aligns Celie's journey with gender equality and reduced inequalities. It also underscores the need to dismantle patriarchal and racial hierarchies to achieve justice and equity. Walker's narrative also connects to equality in education and decent work and economic growth, celebrating the empowering effects of education, economic growth, and self-expression for marginalised individuals. Through a feminist and postcolonial lens, this paper explores *The Color Purple* as a profound narrative of personal and societal transformation relevant to the modern era. Further, this research shows how personal struggles rooted in trauma and marginalisation can inspire resistance and community building. Ultimately, *The Color Purple* is a testament to the enduring strength of reclaiming voice and agency as pathways to justice and equality.

**Keywords:** inequalities, social justice, self-empowerment, SDG goals, trauma, voice

## Performance Evaluation of Sweet Potato (*Ipomoea batatas* L.) Varieties Under Different Fertilization Strategies Intercropped with Mulberry Trees

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Poverty and malnutrition remain pressing issues in the Philippines, with high incidences of underweight, under-height, and wasting among adults and children. Agroforestry, a sustainable farming system integrating trees and crops, presents a promising approach to improving livelihoods and addressing nutritional challenges. This study explored the intercropping of sweet potato (*Ipomoea batatas* L.) varieties with mulberry trees to enhance land productivity, economic returns, and food security. Four sweet potato varieties (V1 – Seven Flores, V2 – Seri Kenya, V3 – Immitlog, and V4 – Violeta) and four fertilization strategies (F0 – No Fertilizer, F1 – 100% Chicken Compost, F2 – 100% Urea, and F3 – 50% Chicken Compost + 50% Urea) were evaluated in a 4x4 split-plot design using a randomized complete block factorial layout with three replications. The experiment was conducted at SRDI DMMMSU NLUC, Bacnotan, La Union, from January to April 2019. The results revealed significant differences among sweet potato varieties and fertilization strategies in survival rate, biomass yield, vine growth, storage root yield, sugar content, and cost-benefit ratio. Mulberry trees also exhibited significant variation in shoot growth, leaf development, and biomass yield under different fertilisation treatments. These findings underscore the potential of intercropping sweet potatoes with mulberry trees, coupled with optimised fertilisation strategies, to improve productivity and profitability in agroforestry systems. This study provides critical insights for advancing sustainable agriculture and food security in the Philippines and similar regions.

**Keywords:** Agroforestry, Intercropping, Sweet Potato Varieties, Fertilization Strategies, and Food Security



## The Impact of Computer-Aided Instructional Materials on Students' Academic Performance in Science 7

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The research aims to assess the impact of Computer-Aided Instructional Materials on student's academic performance in Science 7. The particular subjects covered in basic biology can be utilised as a workbook for general education or as an additional reference for teachers to improve their approach to teaching and successfully foster a love of learning in their students. Initially, the researcher assembled a collection of visual and graphic interactive techniques from multiple General Biology references to create the computer-aided Instructional material. To collect the necessary number of subjects for the study, the researcher created a pre-validated survey questionnaire that was broken down into three sections: the first section covers the demographic distribution profile of the respondents; the second section contains the basis for evaluating the respondents' level of acceptability based on the following criteria: learning outcomes or objectives, then content, usefulness, clarity, presentation, appropriateness, language, and style; the third section uses the subject's numerical response as the foundation for suggesting the instructional material. The study employed the descriptive comparative research technique to create and comprehend the content and implementation of the developed computer-aided instructional material. The findings suggest that the Instructional material contains all the necessary components to promote improved learning facilitation and increase biology student engagement. The majority of respondents thought positively of the suggested Instructional Material. The instructional materials are entertaining, encourage critical thinking, encourage active involvement, and help teachers and students retain the material.

**Keywords:** assess, computer-aided instructional, impact, workbook

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The study is built to explore the unique relationship between the three main factors that are addressed through the research (Board Gender Diversity, ESG performance, and Corporate Innovation) regarding the culture and governance in the Bahraini society and market. Using the grounded theory approach, the research aims to identify the kind of relationships while conducting a qualitative analysis of the 20 board members interviewed during the study. The participants were mixed from different company sizes, ages, genders, years of experience, company age, education, and leadership styles to ensure that the results would be among different types and cover the widest possible range of Bahraini corporations. Mainly, the research is targeting the aim of exploring the relationship between the various leadership styles used between males and females in reflection on the innovative outcomes of the corporates, keeping in the relationship the Bahraini culture effect. The results of the analysis of the interviews found that the Bahraini corporates with higher rates of diversity in boardrooms reflected a better performance in the different dimensions such as ethical considerations, governance, ESG performance, and decision making; all these dimensions are used to enhance the risk management and keeping the competitive advantage in the market.



## Foretelling Futures: Climate Crisis and Speculative Adaptation in Octavia Butler's Parable of the Sower

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This research explores the connection of climate crisis and speculative adaptation in Octavia Butler's Parable of the Sower through the process of Timothy Morton's "Dark Ecology." Morton's framework redefines ecological thinking by challenging the dichotomy between humanity and nature, proposing instead a perspective of entanglement and mutual existence. Butler's narrative, set against a backdrop of ecological collapse, mirrors this entanglement by portraying a world where survival necessitates a radical rethinking of human-nature relationships. The study applies Morton's concepts of "dark futures" and ecological thought to analyze the protagonist Lauren Olamina's vision of Earthseed, a belief system emphasizing adaptability and resilience in a climate-ravaged society. Butler's speculative narrative transforms ecological catastrophe from a mere disaster into a catalyst for change, forcing characters and readers alike to confront the realities of ecological and societal correlation. By highlighting how Butler's speculative futurism aligns with eco-critical theory, this research contributes to understanding literature's role in addressing contemporary environmental challenges. It shows how Butler challenges anthropocentric views and offers a model of adaptation that blends survival with ecological harmony. Ultimately, this study positions Parable of the Sower as a cautionary tale and an inspiring vision for exploring uncertain environmental futures.

**Keywords:** Climate crisis, Dark ecology, Earthseed philosophy, Human-nature entanglement, Resilience and survival, Speculative adaptation

## Artificial Intelligence and The Future of Criminal Profiling: A Comparative Analysis of Traditional vs. AI-Driven Approaches

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Criminal profiling is one of the most important investigative tools for law enforcement agencies to identify and apprehend criminals based on behavioural patterns and evidence at the crime scene. Traditionally, criminal profiling relied on expert judgment and manual analysis of data. However, with the advent of Artificial Intelligence, this process has been significantly enhanced. AI technologies such as machine learning algorithms and pattern recognition have the potential to be more efficient and accurate in large volumes of data, help predict criminal behaviour and enable quicker identification of suspects. This paper discusses how the integration of AI is viewed in terms of criminal profiling, including its effectiveness, challenges, and ethical considerations in forensic psychology and sociology. This is still an emerging field, but the application of AI in criminal profiling is going to revolutionise law enforcement practices by making them more data-driven and precise. The study underlines the need to develop AI models that are not only effective but also transparent and ethically sound in their application.

**Keywords:** Artificial Intelligence, Criminal Profiling, Data-Driven Investigations, Behavioral Analysis



## Impact of Artificial Intelligence on Student Academic Performance in Niger State College of Education, Minna

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Artificial Intelligence (AI) has the potential to revolutionise education by enhancing teaching methods and supporting students in their learning journey. Its integration into educational environments has created new opportunities for improving academic performance by providing personalised learning experiences, optimising educational resources, and enabling better access to learning materials. However, the objective of the study is to examine the Impact of Artificial Intelligence on Student Academic Performance at Niger State College of Education, Minna. The study is underpinned by the Technology Acceptance Model (TAM). The study made use of mixed methods and adopted a concurrent embedded research design; data were collected from 422 samples of students in the Niger state college of Education Minna using an adapted questionnaire; stakeholders, management staff, and academic staff were interviewed, and secondary data was also used for the study. The results of the analysis, using Analysis of Variance (ANOVA), indicated that artificial intelligence has a significant impact on student academic performance at Niger State College of Education in Minna. However, interview responses highlighted that AI has also led to increased laziness and over-reliance on technology among students, negatively affecting their academic performance at the college. The study recommended that students be taught to use AI responsibly, while faculty should design assignments that promote both AI utilisation and active engagement with traditional methods.

**Keywords:** Artificial Intelligence (AI) on Student Academic Performance

## Role of Artificial Intelligence in Sustainable Development Goals on Health & Education

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The United Nations' Sustainable Development Goals (SDGs) emphasize the importance of good health and well-being (SDG 3) and quality education (SDG 4) for achieving sustainable development. Artificial Intelligence (AI) has emerged as a key enabler of these SDGs, offering innovative solutions to improve access, quality, and outcomes in education and healthcare. In education, AI can enhance personalised learning, automate grading, and provide real-time feedback, leading to improved student outcomes and increased access to quality education. AI-powered adaptive learning systems can also help address learning disparities and promote inclusive education. In healthcare, AI can improve disease diagnosis, predict patient outcomes, and optimise treatment plans, leading to better health outcomes and improved quality of life. AI-powered chatbots and virtual assistants can enhance patient engagement, improve health literacy, and support preventive care. However, integrating AI in education and healthcare poses challenges, including ensuring equity, addressing bias, and protecting sensitive data. To harness the potential of AI in achieving SDGs-3 and SDGs-4, it is essential to develop and deploy AI solutions that prioritise human well-being, equity, and sustainability.

**Keywords:** Sustainable Development Goals, Artificial Intelligence, Education, Healthcare, Personalized Learning, Disease Diagnosis, Patient Outcomes, Equity, Bias, Data Protection.



## Impact of Human Resource Management Information System (HRMIS) Implementations on Organizational Performance (OP) (A Case Study of Punjab Revenue Authority)

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**Purpose** – Information Technology has been advancing ever since the computer revolution of the previous century. Organizations have also benefitted from these advancements. The modern world has witnessed an irrevocable improvement in how organisations manage their affairs. Human Resource Management (HRM) is one of these affairs and a primary requisite for the efficient working of an organisation. The integration of human resource management and information technology or the advent of the Human Resource Management Information System (HRMIS) has revolutionised how organisations manage their HRM tasks. This study aims at a detailed analysis of the implementation of HRMIS in the Punjab Revenue Authority (PRA) Head Office in Lahore, Pakistan. It inquires whether the influence of HRMIS has been positive or not so that a roadmap can be delineated for large-scale implementation of HRMIS in Pakistan.

**Design/methodology/approach** – The nature and method of the study is that of a descriptive survey through a questionnaire given to a random, inclusive and diverse sample from Punjab Revenue Authority, (PRA), Pakistan. Participants were employees of PRA. Validated scales from previous studies were utilised. A five-point Likert scale was used. The data were analysed using SPSS. **Findings** – The results show that there has been a positive impact of the implementation of HRMIS at the PRA. The inferences from these results are promising and hint that the widespread application of improved HRMIS in organisations all over Pakistan would lead to a progressive and technologically advanced state. The results of the SPSS analysis supported all the research hypotheses. **Research limitations/implications** – This study was conducted utilising data acquired in Pakistan. Similar studies may lead to different results in other nations on the connections between various applications of HRMIS and organisational performance. The study's findings have implications for PRA and other firms in general. To strengthen their clean production capabilities, manufacturing industries in both emerging and developed countries can embrace this approach. **Originality/value** – This novel research contributes to the literature and provides a working model to PRA by employing HRMIS and boosting in combination with time to time innovations.

**Keywords** – Information Technology (IT), Human Resource Management Information System (HRMIS), Punjab Revenue Authority (PRA), Organizational Performance

## Artificial intelligence & its role in the field of education

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In the future, intelligent machines will replace or enhance human capabilities in many areas. Artificial intelligence is the intelligence exhibited by machines or software. It is the subfield of computer science. Artificial intelligence is becoming a popular field in computer science as it has enhanced human life in many areas. Artificial intelligence in the last two decades has dramatically improved the performance of the manufacturing, service sector, and so on in education. Studies in artificial intelligence have given rise to the rapidly growing technology known as expert systems. Application areas of artificial intelligence are having a huge impact on various fields of life as the expert system is widely used these days to solve complex problems in various areas such as education, engineering, business, medicine, weather forecasting, etc. The objective of this study is to explore the role of artificial intelligence applications in education. The study needs to be tested statistically for better understanding and to make the findings more generalised in the future.

**Keywords:** artificial intelligence (AI), social robots (SR), smart learning (SL), education (E)



## Review on Prevalence and Characterization of Extended Spectrum Beta-lactamases Producing *Pseudomonas aeruginosa* in Nigeria

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*Pseudomonas aeruginosa* is one of the most frequent opportunistic pathogens causing a range of infections. It is resistant to beta-lactamases, causes the emergence and spread of extended-spectrum beta-lactamases (ESBL) producing *P. aeruginosa* and is two of the major problems currently threatening global public health. However, there are many reported cases of (ESBL-producing *P. aeruginosa* in Nigeria. Yet, there are areas and places in Nigeria where cases of ESBL are under-reported. This review aimed to assess the prevalence and characterisation of ESBL-producing *P. aeruginosa* in Nigeria. Extensive literature was carried out through an electronic database search that encompassed African Journals Online, Google Scholar, PubMed, Medline, Web of Science, and Scopus, which were searched to retrieve relevant academic journals. During the research, one hundred and fifty (150) publications were reviewed from previous research articles published between 2012 and 2024 and were used for this review. The titles and abstracts of retrieved articles were reviewed of which fifteen (15) articles were selected, and the full texts of the selected articles were also reviewed. The results of fifteen (15) selected articles showed that 138 *P. aeruginosa* pathogens were isolated and the antibiotics resistance test against the isolated organism *P. aeruginosa* belongs to different classes, including Gentamicin, amoxicillin/clavulanate, erythromycin, cefuroxime, ceftriaxone, amoxicillin, cefotaxime, ceftazidime, meropenem, gentamicin, ciprofloxacin, nitrofurantoin, cefepime, piperacillin/tazobactam and ceftazidime. The results of the phenotypic ESBL tests showed that out of 138 *P. aeruginosa* isolated, only 52 were confirmed positive for ESBL *P. aeruginosa*. This research review showcased the prevalence, emergence and spread of ESBL-producing *P. aeruginosa* in Nigeria and its burden in different regions. And calls for attention to put in place all require effort to do away with channels of its transmissions and spread to save guide people from the risk of contractions.

**Keywords:** *Pseudomonas aeruginosa*, extended-spectrum beta-lactamases, Nigeria

## Design Thinking: As a Digital Tool to Enhance the Creativity and Problem-Solving Ability of Students

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One of the most difficult challenges in education in the twenty-first century is to teach students to deal with deception, information confusion, value conflicts, a lack of a clear formula, and interconnected concerns. Design thinking is a student-centered method for connecting with students and teachers in a constructivist learning environment. This improves students' learning by connecting real-world experiences, problem-solving and creativity foundations, and numerous reflections and reconstructions. Design thinking enables students to approach unclear and unsuccessful situations with confidence by gradually implementing the five processes to test solutions or prototypes for tackling wicked problems. In Design thinking method, teacher provide the problem, then students find the solution through Environmental exposure and create prototype in a digital mode, then teacher provide a feedback based on the prototype and recreate a model effectively. This is practical and student-centred approach, where students work in an Experimental way. Design thinking is a Project based learning, which establish the connection between inner and outer world and allows students to develop artefacts/products (charts, presentations, speeches) that reflect and communicate their emerging understanding. Through these activities, students develop the understanding of concepts and content, creativity and problem-solving abilities. It helps children prepare for the intricacies of future challenges. It is primarily a volatile, unpredictable, complex, and ambiguous (VUCA) world, and we must provide our children with the abilities of digital skills, creativity, problem-solving, decision-making, responsibility, and cooperation to enable them develop inventive, out-of-the-box solutions.

**Keywords:** Design Thinking, Digital Skills, Creativity, Problem-Solving ability.



## Harnessing AI and Technology to Empower Academia and Professions

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The rapid evolution of Artificial Intelligence (AI) and emerging technologies is reshaping both academia and professional sectors, revolutionising traditional practices and creating new opportunities for innovation. This paper examines how AI and technology enhance efficiency, accessibility, and advancement in education and various professions. By analysing secondary data, including case studies and statistical evidence, the study explores AI's current applications in academia, such as personalised learning, automated grading systems, and research innovations. It also assesses AI-driven transformations in industries like healthcare, finance, and law, driving more informed decision-making, improved service delivery, and increased professional competencies. The findings reveal that while AI holds immense potential for positive change, challenges such as ethical concerns, job displacement, and unequal technological access remain significant hurdles. Case studies from academic institutions and businesses demonstrate how AI is being integrated to boost productivity and educational outcomes. However, disparities in AI access—especially in underfunded institutions and developing regions—are hindering the full realisation of these benefits. In conclusion, the paper calls for greater collaboration among educational institutions, governments, and industries to promote responsible AI adoption and ensure equitable access to these transformative technologies. With the right regulatory framework and infrastructure, AI and technology have the potential to unlock vast opportunities for growth, innovation, and development in both academia and professional fields.

**Keywords:** Artificial Intelligence, Emerging Technologies, Academia, Professional Sectors, Innovation, Educational Advancements.

## Exploring AI's Dual Role in Enhancing Academic Learning and Professional Growth

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Artificial Intelligence (AI) has become a transformative force, significantly influencing academia and professional sectors by enhancing learning and fostering growth. This paper examines AI's dual role in personalising education, advancing teaching methodologies, and streamlining professional practices. In academia, AI-powered tools such as adaptive learning systems, virtual tutors, and predictive analytics are creating personalised learning experiences, increasing accessibility, and enabling data-driven teaching approaches. These innovations bridge gaps in education, cater to diverse learning styles, and empower educators to focus on fostering critical thinking and creativity. Simultaneously, in professional domains, AI is revolutionising industries by automating repetitive tasks, optimising decision-making, and enabling skill development through interactive training platforms and real-time feedback systems. This integration enhances efficiency, drives innovation, and equips professionals to adapt to dynamic work environments. However, the paper also addresses challenges such as ethical concerns, data privacy issues, and digital equity, emphasising the need for responsible AI adoption. The evolving roles of educators and professionals in this AI-driven ecosystem underscore the importance of balancing human insight with technological advancements. Through an analysis of case studies and recent research, the paper highlights AI's potential to bridge the gap between theoretical knowledge and practical application, fostering lifelong learning and career readiness. It argues that the ethical integration of AI in education and professional settings can significantly enhance outcomes, paving the way for a more inclusive and innovative future. This exploration offers valuable insights into how AI can serve as a powerful enabler, transforming both academic and professional landscapes while addressing critical challenges to ensure sustainable growth and equity.

**Keywords:** Artificial Intelligence (AI) and Professional Growth, Customize, Adaptive Learning Systems, Virtual Tutors, Predictive Analytics.



## The Impact of Artificial Intelligence on Academic Activities in Indian Higher Education: An Empirical Analysis

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The use of AI platforms such as Chat GPT, Click Up, Jasper, Grammarly GO, and Copy.ai is rapidly growing. This empirical study investigates how AI influences students in Indian higher education, shedding light on its integration into the academic environment. The participants in this study represented diverse age groups, academic disciplines, and genders, providing a comprehensive perspective. The research highlights AI's influence on academic performance, student engagement, and overall educational experiences. A wide demographic was surveyed, encompassing various age ranges, genders, and academic specialisations. Many respondents, particularly in higher education, demonstrated familiarity with AI tools. The increasing adoption of AI-driven learning platforms, chatbots, and personalised course recommendations indicates the technology's growing presence in academia. This study offers an in-depth understanding of the interplay between technology and education in India's higher education context, contributing to ongoing discussions on this subject. The abstract is based on a blend of doctrinal and non-doctrinal research methods.

**Keywords:** Artificial intelligence, higher education, technology, programming, learning tools

## The Convergence of Artificial Intelligence and Technology in Academia and Professional Domains

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The convergence of Artificial Intelligence (AI) and advanced technologies is transforming academia and professional sectors, offering significant opportunities while posing challenges. In education, AI enhances learning experiences through personalised platforms, virtual teaching assistants, and adaptive assessments while accelerating research processes with data analysis and hypothesis generation tools. In professional fields, AI is reshaping job roles, automating routine tasks, and improving decision-making through predictive analytics and machine learning. Key industries like healthcare, finance, law, and engineering leverage AI-powered innovations to drive efficiency and growth. Additionally, AI supports workforce development by providing customised training and upskilling programs to ensure adaptability in an evolving job market. Despite these advancements, AI adoption raises ethical concerns, including algorithmic bias, data privacy issues, and potential job displacement due to automation. Addressing these challenges requires a balanced approach, integrating technological innovation with ethical frameworks and regulatory measures. This review highlights the transformative impact of AI on education and work, emphasising the need for interdisciplinary collaboration to maximise its benefits and mitigate risks. Analysing case studies and trends underscores AI's role in shaping a more adaptive and resilient society.

**Keywords:** Artificial Intelligence (AI), Education, Professional sectors, Ethical concerns, Automation, Workforce development.



## Holistic green marketing: integrating sustainable product design, eco-friendly packaging, ethical promotion, and waste management solutions

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Holistic green marketing is a forward-thinking approach that integrates sustainability into all aspects of business operations, addressing the urgent need to balance environmental preservation with economic growth. It encompasses eco-friendly production methods, innovative packaging solutions, ethical promotion, and waste management, aligned with the principles of a circular economy. By emphasising resource conservation and reducing environmental harm, green marketing allows businesses to meet the demands of increasingly eco-conscious consumers while complying with stricter environmental regulations. This paper highlights key practices such as sustainable sourcing, energy-efficient manufacturing, and water conservation, which reduce ecological footprints and enhance operational efficiency. Packaging innovations—such as biodegradable, compostable, and recyclable materials—offer solutions to global waste challenges and appeal to consumers seeking sustainable alternatives. Companies like Nestlé and Unilever exemplify the successful integration of these principles into their operations. Transparency and ethical promotion are crucial in green marketing, with credible eco-labelling systems empowering consumers to make informed decisions. Brands like IKEA and Patagonia leverage such transparency to build trust, foster loyalty, and enhance their reputations. Despite challenges, including high production costs, inconsistent labelling standards, and consumer scepticism, green marketing offers significant opportunities. The growing demand for sustainability among younger, environmentally aware consumers presents a chance for businesses to innovate and differentiate themselves in competitive markets. The future of holistic green marketing lies in advancing technologies, stricter policies, and collaborative efforts among stakeholders. As companies prioritise sustainability, they contribute not only to environmental preservation but also to long-term business success. Holistic green marketing is thus a pivotal strategy for fostering a sustainable global economy and promoting shared prosperity.

**Keywords:** Holistic Green Marketing, Circular Economy, Sustainable Packaging, Eco-Labelling, Environmental Stewardship

## From classrooms to chatbots: transforming English teaching-learning with artificial intelligence

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The advent of Artificial Intelligence (AI) has transformed teaching practices across various disciplines, including English language instruction. This paper examines the application of AI in teaching English to higher secondary students, emphasising its role in improving language proficiency and promoting personalised learning. Educators can provide tailored instruction that addresses individual student needs by employing tools like AI-powered chatbots, adaptive learning platforms, and automated assessment systems. Key areas of focus include vocabulary development, grammar accuracy, reading comprehension, and speaking fluency, all critical for mastering English. This study employs a mixed-methods approach, combining quantitative analysis of student performance data with qualitative insights from teacher and student feedback. Results demonstrate that AI integration significantly enhances student engagement and learning outcomes alongside traditional teaching methods. Furthermore, AI applications offer continuous feedback and self-paced learning opportunities, enabling students to build confidence in their language skills. Despite these advantages, challenges such as limited accessibility, high implementation costs, and the need for teacher training persist. The paper underscores the importance of balancing AI tools and human intervention to ensure a holistic learning experience. It concludes by advocating for policies and practices that support AI-driven innovations while maintaining the irreplaceable value of educators in fostering critical thinking and emotional intelligence.

**Keywords:** Artificial Intelligence, English teaching, higher secondary students, personalised learning, adaptive platforms, language proficiency, engagement, teacher training, challenges, AI integration.



## The Impact of Artificial Intelligence on Professional Skill Development and Career Progression

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Artificial Intelligence (AI) has emerged as a groundbreaking technology reshaping various industries, influencing how businesses operate and how professionals navigate their career paths. From automating routine tasks to augmenting decision-making, AI is transforming the professional landscape and redefining the skill sets required for career growth. This paper explores the multifaceted impact of AI on professional skill development and career progression. It highlights the shifts in skill demands, the new opportunities AI is creating in various sectors, and the challenges that professionals face in adapting to an AI-driven world. As industries embrace AI technologies, this paper also discusses the importance of continuous learning, the role of soft skills in collaboration with AI, and how professionals can leverage these technologies to enhance their career trajectories. The paper concludes by emphasizing the need for adaptability and lifelong learning to remain competitive in the evolving job market.

## Exploring Challenges and Benefits of AI in Higher Education-A Samoan Case

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The rapid integration of technology in classrooms globally is unmistakable. However, this raises a crucial question: Can a machine truly replace a teacher? How can technology instil essential human values needed to thrive in society, let alone the critical skills graduates require to succeed in the workplace and beyond? This qualitative study aimed to explore the views of practising teachers and teacher trainers on the benefits and challenges of AI in higher education and assess AI's potential to replace or supplement human teachers. Data was gathered via email through open-ended questionnaires from nine (9) practising teachers and nine (9) teacher trainers. The findings revealed that while AI offers substantial benefits, such as improved access to information, immediate feedback, personalised learning experiences, and support for educational resources, it also presents challenges. These include emotional deficits, potential misinformation, and limitations in fostering critical and creative thinking about AI. Similarly, learners' over-reliance on AI-generated information can lead to cognitive deficits. Thus, the findings advocate for a complementary approach where AI enhances but does not replace human teaching. This balance ensures a holistic educational experience.

**Keywords:** Artificial Intelligence, Teacher role, Education, Technology, Challenges, Benefits



## Optimisation of Digital Workflow in Dental Implantology

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In the era of digitalization, implant dentistry represents a true digital revolution. The advancement of equipment and techniques makes the diagnosis and treatment of cases simpler and more precise. The constant introduction of new materials and software to the market allows dental technology to integrate into all aspects of clinical implant dentistry. Its use typically begins at the pre-operative stage, with diagnostic scanning via an intraoral scanner and cone beam computed tomography (CBCT). These tools, combined with implant planning software, facilitate the planning and execution of guided surgical implant placement. Furthermore, technology also applies to the prosthetic phase by enabling the production of both temporary and final restorations, highlighting its role at every stage of the implant process. It aids the dentist in communicating the final treatment result to the patient through the collected digital data, enhancing patient acceptance of the treatment. The objective of this work is to illustrate the application of digital technology in the pre-operative planning, surgical placement, and prosthetic realisation phases of implant treatment.

**Keywords:** Digital Workflow, Digital Dentistry, Dental Implantology, Digital Workflow

## 3D printing in dentistry: Technologies and clinical applications

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Three-dimensional (3D) printing technologies are sophisticated manufacturing processes that utilize computer-aided design (CAD) digital models to automatically create customized 3D objects. In dentistry, 3D printing offers significant advantages in process engineering, with applications spanning oral and maxillofacial surgery, oral implantology, prosthodontics, orthodontics, endodontic, and periodontology. While these technologies provide benefits such as high material utilization and the ability to produce intricate geometries, they also face challenges, including high costs and time-intensive post processing. Looking ahead, the development of new materials and technologies is set to shape the future of 3D printing in dentistry. The potential for further advancements suggests a promising trajectory for this innovative approach, ultimately enhancing patient care and treatment outcomes. The aim of this work is to highlight the clinical applications of 3D printing in dentistry, detailing the production of working models and their primary uses in oral implantology, oral and maxillofacial surgery and prosthodontics.

**Keywords:** 3D printing, Dentistry, oral implantology, CAD



## Exploring the perspectives and experiences of children raised by single fathers

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This descriptive phenomenological study explores the perspectives and lived experiences of Senior High School students raised by single fathers at Almeria National High School-Senior High during the academic year 2023-2024. Six participants were selected for in-depth interviews to examine their challenges, coping mechanisms, and insights gained from their unique family situations. The study draws on Erikson's psychosocial development theory, Ungar's resilience theory, and Bowen's family systems theory as theoretical frameworks. Data were analysed using Colaizzi's method, revealing key themes such as financial burdens, communication challenges, emotional stress, sexual behaviours, self-reliance, the development of independence, and a longing for a complete family. Despite these challenges, the participants demonstrated remarkable resilience and independence, underscoring the need for tailored support. The study recommends establishing support groups for single fathers and their children, creating financial assistance programs, advocating for policy reforms, and conducting longitudinal studies to track long-term outcomes. It also highlights the value of further qualitative research to gain deeper insights into the experiences of single fathers and their children.

**Keywords:** Single father, children's perspectives, children's experiences, father-child relationship, single parenthood

## Emotion and Problem-Based Coping of Caregivers in an Elderly Care Institution: A Case Study

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This case study was anchored to the theory of stress appraisal to identify the challenges and how they influenced the coping strategies practised by caregivers working in an elderly care institution. A semi-structured, researcher-made interview guide was adapted and focused on identifying prevailing themes regarding the working facilities, assessing the needs of the elderly, and workload. It was conducted face-to-face among five (5) caregivers working in an elderly care institution with a minimum of one (1) year of experience who were chosen using a purposeful sampling technique. The information gathered was then analysed through inductive-reflexive thematic analysis. Two (2) significant themes were found, namely: (1) Problem-based coping and (2) Emotion-based coping. These themes were then classified into four (4) sub-themes, under which nine (9) meaningful categories emerged. This study concludes that these caregivers face numerous challenges that influence how coping strategies are enacted through emotion-based and problem-based coping.

**Keywords:** Caregivers, Elderly Care Institution, Problem-based Coping, Emotion-based Coping



## Student Leadership Styles in a Teacher's College

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As the demands on college students grow, effective leadership within educational institutions is becoming increasingly essential. This qualitative study uses Goleman's Leadership Styles framework to examine the leadership styles of nine chairpersons from various student organisations within a teacher's college. Through purposeful sampling and semi-structured interviews, the study identified 13 leadership approaches: Visionary, Decisive, Straightforward, Mandating, Role Model, Connected, Empathetic, Reflective, Collaborative, Engaged, Supportive, Effective Communicator, and Mindful. These styles illustrate how student leaders manage their organisations effectively. The findings suggest that understanding these leadership styles can help educational institutions foster more effective leadership, enhance organisational performance, and align leadership training with student needs.

Keywords: Student Leader, Leadership Styles, Student Leadership Styles, Teacher's College

## Role of Artificial Intelligence for Research Scholars: Boon or Bane

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Due to the rapid advancement in technology, the role of artificial intelligence in academic research has made significant progress, which has the potential to change the way research scholars conduct research. Therefore, the present study aims to highlight the role of AI in academic research and explain how various AI tools will be used to analyse scientific articles, organize research papers, search academic publications, provide answers and information, etc., so that researchers can enhance their research work. Additionally, the study highlights various advantages of using AI tools, such as quick analysis of large data sets, reducing the chances of human error, improving content and structuring, etc., so that researchers can promote innovation in their research. In addition, the drawbacks of using AI in research, such as lack of ethical and emotional consideration, lack of improvement, decline in human self-efficacy, reduced originality and creativity, data privacy and security, etc., are also discussed. Finally, the concluding remarks on using AI in research by research scholars are discussed.

**Keywords-** Artificial Intelligence, Role, benefits and drawbacks.



## Vulnerable Group Development (VGD) Program and its Impact on Micro-level in Rural Bangladesh: An In-depth Study

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This study examines how the Vulnerable Group Development (VGD) Program affects rural Bangladeshi micro development. The Bangladeshi government and the World Food Program (WFP) launched the VGD program to empower poor women via food aid, skill development, and income-generating activities. Despite its extensive breadth, there is no empirical data on the program's micro-level performance, especially in beneficiary socio-economic results. This research addresses the paucity of grassroots socio-economic analysis of the VGD program, notably its success in improving rural women's lives. The study shows how the program influences rural family income, women's empowerment, social mobility, and community infrastructure. The persistence of rural poverty and the need for evidence-based evaluations to better understand the program's micro-level consequences to influence future VGD policy reforms motivate this research. This research examines how the VGD program affects women's socioeconomic position and rural household development. The study uses a mixed-methods approach, integrating quantitative data from surveys (n = 250 recipients) with qualitative insights from interviews with community leaders and program implementers. The survey found that 60% of recipients' family income increased over five years, with average income climbing 35%. Additionally, 40% of women reported higher household decision-making authority. Sustainability remains an issue, with just 25% of recipients maintaining income-generating activities post-program. Finally, the VGD program has improved rural women's economic standing, but low market access, institutional support, and economic dependency on foreign help threaten its long-term viability. Policy proposals improve beneficiary skill development and market integration for long-term socio-economic benefit.

**Keywords:** Vulnerable Group Development (VGD), Rural Bangladesh, Socio-economic impact, Women empowerment, Poverty alleviation.

## Role of Artificial Intelligence in Reshaping Higher Education in India

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Higher education's adoption of artificial intelligence (AI) is transforming conventional learning paradigms by opening up new avenues for individualised instruction, creative teaching strategies, and effective administrative procedures. AI offers a revolutionary potential in India, where the higher education industry faces issues like uneven accessibility, talent gaps, and budget limitations. This research explores how artificial intelligence is transforming higher education in India by analysing its applications, including AI-powered administrative tools, intelligent tutoring systems, and adaptive learning platforms. It also tackles critical challenges such as infrastructure limitations, budget constraints, and ethical considerations while identifying strategies to leverage AI in support of India's National Education Policy (NEP) 2020. The study concludes with recommendations for policymakers, educators, and engineers to establish a sustainable AI ecosystem that bridges the gap between India's traditional and future-ready educational institutions.

**Keywords:** Artificial Intelligence (AI), Higher Education, Adaptive Learning, National Education Policy (NEP) 2020, Personalized Education, Intelligent Tutoring Systems, AI in India, Educational Technology, Ethical Challenges in AI, Sustainable Education Ecosystem



## Blending cultures: The dance of syncretism and borrowing

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Syncretism has its roots in a wide range of concepts, ranging from linguistics to religion, to culture, ethnicities, etc. The concept of syncretism simply means combining or blending one form with another, be it the blending of forms at word level or blending of thoughts at the cultural level or the blending of beliefs at the religious level. Sociolinguistics, on the other hand, is an interdisciplinary field of linguistics wherein the interaction between two aspects, i.e., language and society, is studied. Borrowing, being one of the most widely studied concepts of sociolinguistics, refers to the addition of words or themes from the target language to the source language, thus enhancing its vocabulary. The present paper is an attempt to amalgamate these two separate themes. i.e., syncretism and borrowing, and see how the borrowed words are, in due course of time, syncretized to fit the particular narrative of a language.

**Keywords:** - Borrowing, Culture, syncretism, Language, Religion

## Artificial Intelligence: A New Frontier in Academic Research and Innovation

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In an age of rapid technological advances across various spheres of life, Artificial Intelligence (AI) is playing a prominent role. It is contributing to all sectors, including professions and academics, making it essential to be familiar with the latest tools and technologies to enhance academic research. This study provides a descriptive overview of the technical AI tools required by the academic community, highlighting their uses and applications across different fields. While the implementation of AI can lead to significant advancements, it also raises concerns regarding transparency, privacy, and accountability. Therefore, it is crucial to emphasise the importance of education and training in the field of AI so that researchers can leverage the available tools effectively while minimising potential risks that may lead to errors in research. Providing proper guidance and training can yield positive outcomes and be beneficial for society.

**Keywords:** AI, Academic, Research, Technology, and Tools.



## Sustainable practices in the hospital industry

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The hospital industry, while essential for public health, is a significant contributor to environmental degradation. Hospitals consume vast amounts of energy, generate considerable waste, and contribute to pollution. This research paper provides a comprehensive analysis of sustainable practices in the hospital industry, focusing on energy efficiency, water conservation, waste management, sustainable procurement, and green building design. By examining case studies, current implementations, and barriers, this paper highlights the growing need for sustainable strategies that balance healthcare quality with environmental responsibility. The findings suggest that although there are challenges, such as high initial investments and operational complexities, the long-term benefits, including cost savings and regulatory compliance, outweigh the difficulties.

## Role of Metaverse in Education

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The concept of 'metaverse' has been getting lot of attention across the world. The term refers to a virtual space that makes use of augmented reality (AR), virtual reality (VR), and the internet in order to create immersive digital environments. It provides opportunities for users to interact with each other and with digital objects in real time, often through avatars. Interestingly, nowadays, a lot of focus is being given to using metaverse for educational activities. The researchers have found that this digital environment can be very beneficial to the students, allowing them and educators to interact in ways that transcend traditional classroom settings. The metaverse plays several key roles in education, transforming how learning occurs and enhancing the overall educational experience. The metaverse has the immense potential to revolutionize education by making it more interactive, inclusive, and relevant to the needs of today's learners. As technology continues to evolve, its role in education is likely to expand further, offering new ways to teach and learn. With the help of this digital world, simulated environments can be created for the students where they can explore complex concepts, collaborate with peers across the globe, and participate in experiential learning activities that traditional classrooms may not offer. The purpose of the current paper is to examine the scope of the metaverse in education and discuss its benefits, challenges, and future prospects. It is also important for the institutes to understand the challenges of using the digital environment. Issues like privacy concerns, the need for teacher training, the availability of the required expertise, etc., must be addressed to fully realise the potential of the metaverse in education.

**Keywords:** Metaverse, education, virtual reality, digital environment



## To develop the Nobel prize “for the development of lithium-ion batteries” theory by hardware description language & verify by test bench programming to describe characteristics

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The advancement of lithium-ion battery technology hinges on a thorough understanding of their diverse characteristics. This paper explores a novel approach employing Hardware Description Language (HDL) to model and analyze critical aspects of lithium-ion batteries, encompassing electrical, thermal, chemical, and electrochemical processes. HDL is utilized to model voltage, current, and resistance dynamics within lithium-ion batteries, allowing for precise analysis of electrical performance and efficiency under varying operational conditions. By incorporating thermal modeling into HDL frameworks, we examine heat generation, dissipation, and the impact of temperature on battery performance, addressing key aspects of thermal stability and management. HDL is employed to simulate the chemical interactions within the battery, including the stability of electrolytes and the behavior of electrode materials, crucial for understanding long-term battery health and efficiency. HDL models are used to analyze electrochemical processes during charge and discharge cycles, focusing on charge transfer mechanisms and energy conversion efficiency. The paper demonstrates how HDL can model the battery's performance over repeated charge and discharge cycles, providing insights into cycle life, capacity degradation, and overall battery durability. Effective thermal management strategies are modeled using HDL to assess their impact on maintaining optimal operating temperatures and preventing issues such as thermal runaway.

**Keywords:** Electrical characteristics of lithium-ion batteries, Thermal characteristics of lithium-ion batteries, Chemical characteristics of lithium-ion batteries, Electrochemical processes, Charge/Discharge cycles, Thermal management.

## To develop “unified complex radio antenna“by verilog & test bench

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--This research explores the design and integration of advanced antenna systems for modern communication and sensor applications. It focuses on multi-band and multi-mode antennas, which provide enhanced versatility by supporting multiple frequency bands and operating modes in a single system. A key feature of the study is the development of a dual-polarized endfire phased array antenna, which allows for higher directivity and beamforming capabilities, essential for efficient wireless communication and radar applications. The integration of microwave antennas with sensors is also examined, emphasizing the benefits of combining communication and sensing functions into a compact, multifunctional system. Additionally, the paper presents the design of a cylindrical continuous-slot array, offering a wide operating bandwidth and improved performance in terms of size and radiation pattern. A significant aspect of the research is the separation of antennas from the telematics control unit (TCU), aiming to improve system modularity and flexibility. Moreover, the paper investigates the integration of the TCU directly with antennas, reducing the overall form factor and enhancing system performance. Through simulation and experimental results, this work demonstrates the feasibility of these integrated solutions, showcasing their potential applications in next-generation automotive, IoT, and defense systems. The study concludes with a discussion on the trade-offs between performance, integration complexity, and system optimization.

**Keywords:** Multi-band and multi-mode antennas, Dual-polarized endfire phased array antenna, Integrated microwave antenna/sensor, Cylindrical continuous-slot array, Separate antennas from the telematics control unit (TCU), Integrate the TCU with the antennas.



## Artificial Intelligence in Bangladeshi Higher Education: Future and Challenge

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Artificial Intelligence (AI) holds transformative potential for Bangladeshi higher education, offering solutions to persistent challenges such as outdated curricula, inadequate infrastructure, and limited access. This study investigates the current state of AI adoption in Bangladeshi universities, explores its future possibilities, and identifies key challenges hindering its integration. Using a mixed-methods approach, the research incorporates surveys, interviews, and document analysis to assess AI's impact on teaching, learning, and administrative processes. Findings reveal that while private universities such as BRAC University have initiated AI-driven learning tools, public institutions struggle with infrastructural limitations, insufficient funding, and a lack of trained educators. Additionally, limited internet penetration, particularly in rural areas, and the absence of a comprehensive national AI strategy exacerbate these challenges. Despite these obstacles, AI has the potential to revolutionize higher education in Bangladesh by enabling personalized learning, bridging urban-rural disparities, and preparing students for AI-driven job markets. The study underscores the urgency of policy interventions, capacity-building programs, and strategic investments to address these barriers. By providing evidence-based recommendations, this research contributes to the discourse on the equitable and sustainable implementation of AI in Bangladeshi higher education, serving as a model for other developing nations facing similar challenges.

**Keywords:** Artificial Intelligence, Bangladeshi Higher Education, Personalized Learning, Digital Infrastructure, Policy Recommendations, Educational Equity

## Hybrid Cryptographic Algorithm Based On Aes, Rsa And Walsh Transform

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This paper proposes a hybrid cryptographic algorithm combining RSA algorithm and Walsh Transform to enhance data security and performance. The hybrid approach leverages the strengths of asymmetric encryption (RSA), and the computational efficiency of the Walsh Transform. RSA ensures robust key exchange security, and the Walsh Transform introduces lightweight linear operations for preprocessing data. Experimental results demonstrate the hybrid algorithm's superior performance, achieving robust encryption with a notable trade-off between speed and security. Comparative analyses against standalone RSA, and Walsh methods reveal the hybrid algorithm's competitive edge, particularly in scenarios requiring high security. Key challenges, including computational overhead and implementation complexity, are also discussed, along with future improvements. Our scientific group has begun exploring the applications of the Walsh transform in both textual and audio information processing. Specifically, this includes the development of new hybrid algorithms, such as AES and RSA. In this work, we will present the hybrid algorithm combining the RSA algorithm and the Walsh transform.

**Keywords:** Hybrid Cryptography, RSA, Walsh Transform, Data Security, Encryption Performance



## Assessment of medical waste management by hospitals of Dhaka city

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Hospital waste are the waste produced in the course of healthcare activities during treating diagnosing and immunizing human beings or animals or whole doing study / research activities. Improper handling of medical wastes, which is common in Bangladesh, could adversely affect the hospital environment and community at large, and poses a serious threat to public health. This study is aimed to assess the knowledge and practices regarding medical waste management (MWM) among healthcare providers (HCPs). This Cross Sectional Study was carried out to evaluate the level of medical waste management by hospitals of Dhaka city. We estimated the sample size through simple random sampling and used both open & close-ended questionnaire for data collection. The Data were collected using a self-administered questionnaire. Informed consent has taken from all the participants. Then the data analysis was done by using SPSS. We use the source of health care waste: Government hospital, Private hospital, Nursing homes, Physician office, Dentist office, Dispensary, Mortuaries, Blood bank and collection centre, Animal house, Laboratories, Research organization. The study population was health professional at hospital in Dhaka city, Bangladesh. 379 sample sizes were selected to assess the Knowledge, attitude and Practice regarding hospital waste management among them by face to face interview. The strengthening and expansion of on-going educational programs/training is necessary to improve knowledge, attitude and practices regarding MWM.

**Keywords:** Health and environmental impact, Waste disposal, Infection control, Waste management policy, Public health risk, Healthcare facilities

## The Role of AI-Driven Learning in the Comprehensive Development of Higher Education Professionals: An Empirical Analysis

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Artificial Intelligence (AI) has emerged as a transformative force in the education sector, significantly influencing the professional growth of higher education educators. AI-powered tools are revolutionizing teaching methodologies by offering personalized learning experiences and real-time feedback. These advancements enable educators to adapt their approaches to meet diverse student needs while fostering their professional development. Additionally, AI automates routine tasks such as grading and administrative duties, allowing teachers to devote more time to student engagement and instructional improvement. Despite certain challenges, this study emphasizes the immense potential of AI to enhance professional development and redefine the educational landscape. It examines the opportunities and hurdles AI presents in higher education, highlighting its role in fostering the holistic growth of educators. By leveraging and optimizing AI technologies, institutions can maintain a competitive edge, while educators deliver high-quality education. This empirical study is based on a sample of 219 higher education professionals and educators. Key factors influencing the role of AI-driven learning in the holistic development of these professionals include personalized learning experiences, data-driven insights, predictive analytics for informed decision-making, and collaborative learning platforms.

**Keywords:** Artificial Intelligence, Higher Education, Holistic Development, Personalized Learning, Data-Driven Insights, Educational Technology



## Stories of Struggle and Strength: Women's Epistemic Resistance in Second Class Citizen and When I Hit You

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This research article examines the portrayal of women's conditions in Buchi Emecheta's *Second Class Citizen* and Meena Kandasamy's *When I Hit You*. Through a feminist lens, it explores themes such as patriarchal control, silencing, resilience, sexual abuse, and epistemology. The analysis highlights the struggles of the protagonists, revealing how their lived experiences reflect the universal and enduring relevance of gender-based oppression across diverse cultural contexts. Furthermore, the study emphasizes the importance of recognizing women's voices and knowledge as critical tools of resistance against patriarchal power structures.

**Keywords** Patriarchy, Feminism, Gender-based oppression, Women's resilience, Epistemology

## Bacteriological Quality Assessment of some Sachet Water Sold in Dutse Metropolis, Jigawa State, Nigeria

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Water is the most significant and vital resources for human life and welfare however, contamination of water sources is one of the areas of major concern of global public health. Microorganisms, particularly bacteria, are the main contaminant of water, causing numerous infections with high morbidity and mortality annually across the world. This research project was designed to analyse the bacteriological quality of some sachet water sold in the Dutse metropolis of Jigawa State, Nigeria. During the sample collection, a total of twenty-five (25) sachet water samples were procured in an aseptic manner from a vendor within Dutse Metropolis, then were analysed using standard classical microbiological techniques of culture morphology, biochemical and coliform bacteria detection techniques using the most probable number, presumptive test, confirmatory test and completed test. Out of the samples analysed, different bacteria pathogens were identified; *Escherichia coli* is the most predominant bacteria pathogen isolated, followed by *Pseudomonas* species, then *Klebsiella* species, *Enterobacter aerogenes*, *Proteus*, *Salmonella* and *Shigella* as the least bacteria pathogen. Such as going by the zero tolerance level stipulated by regulatory agencies for coliforms in drinking, and the results obtained were unsatisfactory for human consumption. The study recommends that regulatory agencies should establish an avenue of continuous public awareness about the risk and danger of food poisoning and strategic engagement in checkmating activities of sachet water production companies to necessitate mandatory actualization of established national and international standards of water purification techniques.

**Keywords:** Sachet water, Coliforms bacteria, Dutse metropolis, Vendors and Nigeria



## Role of Artificial Intelligence in Higher Education

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The contribution of computer science (AI) within the field of education has invariably been important. From robotic teaching to the event of an automatic system for answer sheet analysis, AI has invariably helped each the lecturers and also the students. During this research we've got done thorough analysis of the assorted analysis developments that were applied across the world like computer science techniques applied to education sector thus on summarize and highlight the role of AI in teaching and student's analysis. Our study shows that AI is that the backbone of all the information science enabled intelligent tutor systems. These systems helps in developing qualities like self-reflection, responsive deep queries, partitioning conflict statements, generating artistic queries, and choice-making skills.

**Keywords:** Artificial Intelligence in Education, Intelligent Tutoring Systems, Automated Answer Analysis, Data Science in Teaching, Student Skill Development

## AI-Powered Tax Optimization: Redefining the Taxation Profession in the Digital Age

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AI is transforming the taxation profession, shifting how tax professionals are expected to do their jobs. This paper discusses the way in which AI tools are changing the way taxpayers approach tax optimisation, and what new set of skills and ethical thresholds need to be navigated in the digital world. By automating repetitive tasks, streamlining compliance and introducing predictive technology, AI is enabling tax practitioners to shift from time-expensive processes to advisory-based structures. It focuses on the potential merits with respect to AI in the labour market with the advent of growing efficiencies and interdisciplinary engagement with other professionals, and exposure of professionals dealing with complex issues arising due to major global taxes. At the same time, it illustrates the challenges of continuous reskilling and the ethical complexities of decision-making driven by AI. That means that these data suggest AI is going to change the face of the taxation profession and it will be up to professionals to navigate the new terrain.

**Keywords:** AI Transformation, Tax Optimisation, Reskilling, Ethical Decision-Making, Interdisciplinary Collaboration



## Transforming Academia and Professions: The Role of Artificial Intelligence and Emerging Technologies

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Advanced technologies and artificial intelligence (AI) are radically changing the academic and professional spheres by fostering creativity, efficiency, and new opportunities. AI-powered resources are changing research, teaching, and learning approaches in higher education. By examining individual learning styles, adaptive learning platforms offer tailored educational experiences that make sure the way content is delivered meets the needs of each learner. AI-powered administrative systems and virtual tutors improve accessibility and academic efficiency by streamlining procedures. AI speeds up scientific discoveries and promotes interdisciplinary collaboration in research by enabling predictive modeling, automating repetitive operations, and facilitating large-scale data processing. Additionally, automatic editing, plagiarism detection, and effective peer review procedures are some of the ways that AI applications in academic publishing raise the caliber of scholarly work. Through operational optimization, enhanced decision-making, and the creation of new opportunities, artificial intelligence (AI) and emerging technologies are transforming professional sectors. AI-powered solutions in healthcare improve diagnosis, customize care, and safely handle large, complicated information. AI is used by financial services to detect fraud, evaluate risk, and forecast markets, allowing for well-informed decision-making. Automation helps manufacturing and logistics; robotics and the Internet of Things (IoT) increase productivity, cut expenses, and guarantee smooth supply chain management. AI also helps sustainability efforts by evaluating environmental data and suggesting practical fixes. Notwithstanding these developments, there are still moral, societal, and financial issues with the use of AI and technology. AI-generated content raises questions about academic integrity in the classroom because it may result in plagiarism and a reduction in critical thinking. Problems like algorithmic bias, data privacy, and job displacement continue to be major problems in professional settings. If AI systems are not properly developed, they run the potential of fostering prejudices, eroding confidence, and posing moral conundrums in domains such as facial recognition, autonomous systems, and decision-making procedures. A multidisciplinary strategy encompassing academia, business, and policymakers is needed to address these issues. Important first measures include creating ethical frameworks, encouraging digital literacy, and guaranteeing fair access to technology. By including AI ethics, policy, and interdisciplinary studies into their curricula, academic institutions can play a crucial role. To guarantee that technical advancements are in line with social values and advance mankind as a whole, cooperation across stakeholders is essential. In summary, artificial intelligence (AI) and cutting-edge technologies are revolutionizing the academic and professional spheres by providing previously unheard-of chances for creativity and problem-solving. However, overcoming obstacles through ethical concerns, responsible governance, and cultivating a culture of ongoing learning and adaptation are necessary for their successful integration. Society can optimize the potential of AI and technology while reducing dangers by striking a balance between innovation and accountability. This will pave the path for a more sustainable and equitable future.

**Keywords:** Artificial Intelligence, Adaptive Learning, Ethical Challenges, Interdisciplinary Collaboration, Digital Transformation

## An Empirical Study on the Advancing of Sustainability in Indian Agriculture

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As of 2022-23, agriculture is the second largest workforce sector in India after services, with more than 45.6% of workers being employed in the agriculture sector, which is essential for the survival of the Indian economy. Agricultural sustainability has emerged as an essential strategy to promote environmentally sound, economically feasible, and socially inclusive practices. This study examines the growth patterns of agriculture and evaluates the long-term effects of sustainable practices across Indian states over two decades (2001-2021), contrasting them with conventional methods. Practices such as organic farming, zero-budget natural farming, agroforestry, drip irrigation, and crop diversification have demonstrated significant benefits, including higher farmer incomes, reduced input costs, improved water-use efficiency, and enhanced soil health. The analysis underscores state-specific advancements driven by geographic, climatic, and socioeconomic factors—Sikkim leading in organic farming, Andhra Pradesh and Karnataka excelling in zero-budget natural farming, Tamil Nadu, Himachal Pradesh, and Punjab in agroforestry, Maharashtra in drip irrigation, and Punjab, Haryana, and Madhya Pradesh in crop diversification. Employing comparative analysis and visual tools, the research highlights consistent improvements in sustainability across states, with marked economic and environmental progress. Nevertheless, challenges remain in achieving uniform adoption of these practices across regions, necessitating targeted recommendations. By offering practical insights for policymakers and stakeholders, the study supports the broader objective of integrating sustainability into business practices and it provides a comprehensive framework to foster responsible growth in this vital sector.

**Keywords:** Agricultural sustainability, Environmental sustainability, Economic sustainability, Social sustainability



## Challenges and Prospects of Incorporating Artificial Intelligence and Technology in Nigeria's Agriculture

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Agriculture has been the mainstay of the Nigeria's majority population as it is self-generating and self-sustaining as well, which continue to provide food and material needs for human sustenance. Over the years, agricultural production continues to provide some opportunities in terms of food production, employment opportunities, and also a source of livelihood. In Nigeria, agriculture continue to face some challenges of which include: food crisis and insecurity due to global population increase, environmental degradation, prevalence and persistence of pests and diseases, low level of improved farming techniques, and lack of capital investments in the sector. However, contemporary scientific revolutions in Artificial Intelligence and Technology (AI&T) has no doubt, transformed Nigeria's agricultural production from traditional practices to modern agriculture, which led to high yields output, early detection of pests and diseases on plants and animals, optimization of farming practices, and weather prediction, among others. The development of AI&T and its eventual incorporation in agriculture had addressed some of the challenges facing agricultural sector in Nigeria. Notwithstanding, problems continue to surface in the form of poor technical know of the AI&T, illiteracy among rural farmers, high cost of AI&T adoption, poor data management, and loss of agricultural related jobs and opportunities due to automation. This research seeks to analyse how the integration of AI&T could be used to harness agricultural potentialities of Nigeria; whereas the data used in this research were mostly secondary sources derived from the academia, United Nations Food & Agricultural Organization (UN/FAO), and other research institutions including universities. For the sake of clarity, questionnaires were administered for data analysis and interpretation.

**Keywords:** Agriculture, Nigeria, AI&T, Challenges, and Prospects

## Artificial Intelligence in Academia: Transforming Educational Practices through Technology

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This study investigates the transformational impact of artificial intelligence (AI) in academia, with an emphasis on its ability to improve teaching approaches, learning experiences, and administrative efficiency. This study is unique in that it focuses on basic, low cost AI systems that may be broadly implemented at academic institutions with minimal resources. The major goal is to assess educators and students' understanding and use of AI technologies, as well as their influence on academic achievement and institutional procedures. A descriptive study methodology is used, with 250 staff members and students from chosen universities providing primary data via structured questionnaires. The data is interpreted using SPSS software, which performs descriptive statistical analyses such as frequency distributions, cross tabulations, and mean score computations. The findings show that, while AI is increasingly recognized as a tool for personalized learning and administrative automation, its adoption is hampered by a lack of knowledge, technical skills, and financial resources. Faculty members benefit most from AI in grading and resource planning, while students find AI technologies valuable for personalized feedback and learning support. This paper emphasizes the practical ramifications of incorporating AI in academia, emphasizing the necessity for capacity building programs and cost effective AI solutions adapted to institutional requirements. The recommendations include providing AI training workshops, building user friendly AI platforms, and encouraging collaboration between academia and AI developers to produce accessible tools. These criteria can help to guarantee that AI makes a meaningful contribution to academic performance and equity.

**Keywords:** Artificial Intelligence, Academia, Educational Technology, Descriptive Statistics, Institutional Transformation



## This is the Way the World Ends: The Apocalyptic Undertones of Modernism in Eliot's The Hollow Men

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This research critically examines T.S. Eliot's *The Hollow Men* through the lenses of modernist literary techniques and existential philosophy, focusing particularly on Martin Heidegger's concepts of being towards death and the void. By analyzing Eliot's use of fragmentation, allusion, and symbolism, the research item brings forward that the poem subverts traditional apocalyptic imagery, transforming the idea of the apocalypse from a redemptive or catastrophic event into a portrayal of spiritual emptiness and existential paralysis. Situated within the cultural and intellectual climate of the early 20th century, particularly in the aftermath of World War I, the research connects Eliot's exploration of modern alienation, disillusionment, the decline of religious authority to broader existential crises, and the rise of secularism. Through a deep engagement with apocalyptic motifs and philosophical themes, this study illuminates the poem's reflection of the modern individual's struggle to find meaning in a fragmented, post-war, and post-religious world. Ultimately, the research aims to highlight *The Hollow Men* as an evocative observer on the human condition, offering new insights into the intersection of modernist literature, philosophy, and cultural disillusionment.

**Keywords:** cultural fragmentation, existentialism, postwar disillusionment, spirituality, symbolic emptiness

## Stressors and Coping Strategies of Student Leaders in a Teachers' College: A Qualitative Study

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This descriptive qualitative study aims to find out the stressors, effects of stress and coping strategies of student leaders in a teacher's college. This study was conducted using the transcripts taken from the interview of eight (8) chairpersons from the various organizations within the college of education who were determined through purposeful sampling. The data was gathered through a semistructured online interview and analyzed using a thematic approach. From the data the stressors, effects of stress and coping strategies of the informants were identified. Thirteen meaningful categories emerged in this study. The Student leader's were primarily stressed because of (1) Organizational Stress, (2) Academic Stress, (3) Mental Stress, (4) Financial (5) Stress and (6) Academic-Related Support. The effects of stress to the informants were (7) Emotional Effects, (8) Physical Effects, and (9) Academic Effects. Thus because of these stressors and effects of stress, the student leaders would formulate these coping strategies (10) Emotional Support, (11) Spiritual Coping, (12) Physical Care, and (13) Recreational Coping. The task of a student leader is a tough endeavor as you have to balance both your academic and leadership roles. This proves that being a student leader is both demanding and a stressful role to play within a teacher's college.

**Keywords:** Student Leader, Stressors, Effects of Stress, Coping Strategies, Stress, Teacher's College



## Digital Humanities as a Platform for Cross-Cultural Critique: Identity Formation in Adichie's Americanah

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This paper shows a cross-cultural critique as a platform for exploring digital humanities, focusing on identity formation in Chimamanda Ngozi Adichie's *Americanah*. It employs Miriam J. Metzger's transnational identity formation framework, the study investigates the protagonist Ifemelu's experiences across physical and digital spheres, highlighting the transformative role of digital platforms and shows how it gives marginalized voices a space to articulate their own stories. Also, the analysis highlights how digital humanities tools contribute to the creation of virtual communities, where people from diverse backgrounds can discuss race and identity. Additionally, it connects to broader social dynamics and shapes contemporary society by questioning stereotypes and maintaining a sense of cultural heritage and community through digital communication, bridging physical divides between continents and cultures. Using a qualitative approach, the paper identifies key themes, including blogging as a form of digital identity, the impact of social media on cultural awareness and engaging with the religious unconscious, and the creation of virtual communities that strengthen diasporic connections. The findings underscore the significance of the intersection of digital and cultural spaces, offering new insights into the dynamic processes of identity formation.

**Keywords:** Identity Formation, Social Media, Online Discourse, Diasporic Connections, Racism, Digital Influence on Cultural and Social Awareness.

## Integration of AI Technology in Cost and Management Accounting for Effective Cost Control

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The rapid advancements in Artificial Intelligence (AI) have introduced transformative opportunities across various industries, including cost and management accounting. This paper examines the integration of AI technology into cost and management accounting practices to achieve effective cost control. By implementing AI-driven tools such as predictive analytics, automated reporting, and real-time data processing, organisations can optimise resource allocation, minimise inefficiencies, control wastage, and enhance financial decision-making. The research highlights the application of AI in analyzing cost behaviours, forecasting future trends, and automating routine accounting tasks, thereby reducing human error and improving accuracy. Key considerations such as system integration, data privacy, and skillset requirements for adoption are discussed. Additionally, case studies demonstrate how AI has been successfully implemented to provide actionable insights for cost optimization. The study concludes by emphasizing the potential of AI to redefine cost and management accounting as a strategic function, fostering sustainable financial practices in the evolving business landscape.

**Keywords:** Cost Accounting, Management Accounting, Artificial Intelligence, Cost Control, Predictive Analytics



## Designing and Implementing AI-Based Systems for Effective Corporate Tax Planning and Management

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Corporate tax planning is a vital component of strategic financial management, offering avenues for optimising tax liabilities while ensuring compliance with statutory regulations. This paper explores the design and implementation of AI-based systems tailored to revolutionise corporate tax planning and management. By implementing advanced machine learning algorithms, predictive analytics, and real-time data processing, AI-based solutions can identify tax-saving opportunities, minimize risks of non-compliance, and enhance decision-making efficiency. The study highlights critical aspects of developing these systems, such as integrating AI into existing financial workflows, designing user-friendly interfaces, and ensuring data security. Practical applications of such systems in analysing complex tax codes, automating repetitive compliance tasks, and forecasting tax implications of strategic decisions are also discussed. Case studies and simulated models presented in this research showcase how AI can significantly reduce manual errors and streamline corporate tax planning processes. The research underscores the transformative potential of AI in creating robust, adaptable, and scalable tax management frameworks, ultimately benefiting organisations in achieving financial efficiency and sustainability.

**Keywords:** Corporate Tax Planning, Artificial Intelligence (AI), AI-Driven Corporate Tax Planning, AI-Driven Corporate Tax Planning Model, Automation, Predictive Analytics

## The Significance of Applying the Kaizen Principle to Language Learning

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This paper focuses on the Kaizen principle from Japan-based philosophy for the betterment of any professional discipline. The meaning for Kaizen is “change for the better” or “continuous improvement”, which means continuous progress that will bring changes in any discipline. This methodology can be incorporated in the language learning process to enhance one’s language knowledge. This Kaizen principle also focuses on embracing new ideas and gamification to set new realistic goals and eulogise students for their commitment. This principle is simple to follow in any country and for students of any socio-economic background. This doesn’t cost any monetary support, either. It is a flexible, simple, and easy principle anyone can grasp and follow. It also helps the learners to analyse and set realistic goals to shape their future careers.

**Keywords:** Kaizen, Continuous Improvement, New Ideas



## Efficacy Of The Carestart Malaria HRP2 And PLDH/HRP2 Combo Compared To Microscopy In Diagnosis Of Malaria

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Malaria control involves prompt diagnosis of malaria parasites either using microscopy, Rapid Diagnosis Tests (RDTs), or other tools such as polymerase chain reaction (PCR). This study was conducted to observe the efficiency and effectiveness of microscopy and rapid diagnosis tests in malaria parasite detection. The study was conducted with patients visiting Sir Yahaya Memorial Hospital Kebbi parasitology laboratory. Blood samples were collected and screened using microscopy and RDT according to the manufacturer's guidelines. The result of the study revealed a high prevalence in patients between the age of 5-20 years, with 41(68.33%) for microscopy and 40(66.67%) for RDT, out of 120 samples of patients, 75(62.50%) were male and 45(37.50%) were female, with positive 55(73.33%) for microscopy and positive of 49(65.33%) for RDT. Also, sensitivity, specificity, positive predicted value, and negative predicted value of microscopy revealed a value of 100%, while RDTs revealed 92.77%, 95.56%, 97.47%, and 87.76%, respectively. This study revealed that microscopy remains the gold standard method for diagnosis of malaria, especially when there is available expertise, but in the absence of a microscope or its expertise, RDTs can be used for quick diagnosis of malaria parasites.

**Keywords:** Malaria, RDT, Sensitivity, Specificity, Patient

## AI Adoption in Higher Education during the COVID-19 Pandemic

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Integrating Artificial Intelligence (AI) and advanced technologies in academia and professional domains has revolutionized traditional methods of learning, teaching, and workplace practices. This paper explores the multifaceted impact of AI, highlighting its potential to enhance efficiency, foster innovation, and address challenges in both academic and professional settings. Through the specific case study of AI adoption in higher education during the COVID-19 pandemic, the paper illustrates how AI-powered tools like virtual learning platforms, intelligent tutoring systems, and administrative automation transformed pedagogical approaches and ensured continuity in education. The study underscores the role of AI in creating personalized learning experiences, improving student engagement, and enabling data-driven decision-making for educators. Furthermore, it examines the ethical implications, including concerns of data privacy, algorithmic bias, and the digital divide, which pose significant challenges in equitable AI implementation. Professionally, the paper delves into AI's contribution to automating routine tasks, enhancing productivity, and supporting decision-making processes. However, it also considers the potential displacement of jobs and the need for upskilling to adapt to an AI-driven workplace. The findings emphasize a balanced approach to AI adoption, advocating for policies and frameworks that maximize its benefits while mitigating risks. The case study serves as a microcosm of the broader dynamics at play in academia and professional spaces, offering valuable insights into the transformative power of AI and the strategic measures required to harness it responsibly.

**Keywords:** Artificial Intelligence, Advanced Technology, Higher Education, COVID-19 Pandemic



## Reliability assessment of power distribution systems to address frequent power outages and automatic line switches using SCADA system

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This research presents a comprehensive reliability assessment of power distribution systems, focusing on frequent power outages, the integration of smart distribution technologies, and the role of automatic line switches. The study offers an in-depth review of power system network reliability, evaluates the performance of electric power distribution feeders, and examines specific case studies of 33 kV power distribution systems. By analyzing the reliability of smart distribution systems and the functionality of automatic line switches, this research proposes strategies to enhance the resilience and efficiency of power distribution networks. Advanced reliability metrics and assessment methodologies are utilized to provide robust solutions for mitigating risks and improving overall system performance.

**Keywords:** Power Distribution Systems, Reliability Assessment, Smart Distribution Technologies, 33 kV Feeders, Electric Power Reliability, Distribution Feeders

## Impact of Women's Health and Economic Condition on Children Nutritional Status: A Correlation Analysis

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The nutritional status of a child is affected by the socio-economic conditions of households and the nutritional status of the mother. An undernourished girl becomes an undernourished mother who gives birth to the next generation of undernourished children. Therefore, the objectives of the study are to inquire about the nutritional status of children, progress related to the women's health indicators, and socio-economic conditions of households in all the districts of Gujarat. Moreover, the study also analyzed the correlation between the children's District Nutritional Index (DNI) value with the Household Condition Index (HCI) value and the Women's Condition Index (WCI) value. Data were utilized from the NFHS-5 report. In terms of child nutritional status, the results show that Junagadh and Porbandar districts have achieved the first rank, meaning that they have the least percentage of malnourished children. Panchmahal district has obtained the last rank, meaning that the district has the highest percentage of malnourished children because it is a tribal district of Gujarat and comparatively less developed than other districts of Gujarat. In terms of household socioeconomic conditions, Rajkot and Ahmedabad have achieved the first rank, while Dahod district has obtained the last rank. Banaskantha and Panchmahal obtained 2nd and 3rd last rank in this category, respectively. If we consider women's health conditions, we find that the Navsari district has achieved the first rank, while the Banaskantha district has obtained the last rank, which means the status of women in terms of health is worse. Spearman's rank correlation has been computed to assess the relationship between the Children's DNI with HCI and WCI values. There is a positive correlation between the Children's District Nutritional Index (DNI) and the Household Condition Index (HCI), with a Spearman's rank correlation coefficient of  $r = 0.61$ , which is statistically significant ( $p < 0.001$ ). Additionally, the correlation between the Children's DNI and the Woman's Condition Index (WCI) is also positive, with a correlation coefficient of  $r = 0.53$ , and it is statistically significant at the 0.001 level. The rationale behind this positive relation is very logical because when the socio-economic condition and women's conditions are improved, nutritional status is also improved.

**Keywords:** NFHS, Gujarat, Malnutrition, DNI, HCI, WCI



## The Transformative Role of Artificial Intelligence in Academia and Professional Spheres

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Artificial Intelligence (AI) has emerged as a transformative force in academia and professional domains, revolutionizing traditional practices and fostering innovation. In academics, AI-driven tools enhance teaching and learning through personalized educational experiences, automated grading systems, and adaptive learning platforms. Researchers benefit from AI-powered data analysis, predictive modelling, and efficient literature reviews, accelerating scientific discovery. Meanwhile, in professional fields, AI optimizes workflows, improves decision-making, and facilitates the automation of routine tasks, enabling professionals to focus on strategic and creative endeavours. The integration of AI also raises ethical considerations, including data privacy, algorithmic bias, and the need for upskilling to adapt to an AI-driven future. This abstract explores the multifaceted role of AI in these sectors, highlighting its potential to advance knowledge, streamline operations, and address challenges associated with its adoption.

## Effect of Dust on the Performance of PV Panels and Proposing Effective Cleaning Techniques

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Solar power plays a significant role in the contribution of energy worldwide. The performance of solar panels mainly depends upon geographical and environmental factors. The manuscript examines the influence of dust accumulation on the performance of solar panels, with a particular focus on the adverse effects of dust on power generation efficiency and dependability. The performance of solar panel glazing is affected by the gathering of dust on solar panels, which leads to the reduction of its efficiency due to low levels of irradiance reaching the cells. Dust is an important well, a well-known ecological factor that reduces the performance of solar panels in achieving power production by renewable sources. As a result, effective cleaning techniques are proposed to help improve the amount of power generation. It underscores the necessity for periodic cleansing of solar panels to avert power loss and proposes the adoption of an advanced cleansing method that obviates the need for an external power source or supplementary cleansing agents. The manuscript introduces the notion of electro-dynamic screening (EDS) as a means of purifying solar panels, which operates on the basis of the movement of particles with opposing charges. Additionally, it remarks that the EDS technique consumes a minimal amount of energy and has the capacity to reinstate the surface of photovoltaic (PV) panels to their original pristine state, thereby achieving enhanced efficiencies.

**Keywords:** Dust; Solar power; Photovoltaic panel; Electro-dynamic Screening; hydrophobic surface.



## The inclusion of artificial intelligence and technology in academic and professional sectors

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The rapid evolution of artificial intelligence (AI) and emerging technologies has significantly transformed not only in academic but also in professional sites. In academics, AI is reshaping the ways in which research is conducted, knowledge is disseminated, and learning environments are structured. In professional sectors, AI technologies are enhancing productivity, decision-making, and innovation across industries such as healthcare, finance, engineering, and education. This paper examines the role of AI and technology in the academic and professional world, focusing on their inclusion, opportunities for growth, challenges, and ethical aspects.

**Keywords:** AI, Technology, Academic

## Exploring Violence and Harassment Against Street Children in Bangladesh: An Empirical Study of Cumilla and Chittagong City Corporation

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Street children in Bangladesh are among the most vulnerable populations, facing pervasive violence and harassment in their daily lives. The present study aims to examine the prevalence and characteristics of violence and harassment encountered by street children residing in City Corporation (CC). By utilizing a mixed approach to the study, information was gathered following purposive and snowball sampling. The research outcomes indicated that children living on the streets are subjected to a range of violent hardships, such as sexual, physical, and emotional abuse, in addition to exploitation and discrimination. The study also found that economic hardship, limited educational opportunities, and family disintegration are key factors pushing children onto the streets, where they face exploitation and abuse. Systemic shortcomings, social discrimination, and insufficient legal safeguards further intensify their vulnerability. The research highlighted the critical nature of implementing focused interventions, enhancing community consciousness, and refining child protection policies in order to effectively tackle the multifaceted obstacles encountered by street children in Chottagram City Corporation (Chottagram CC) and Cumilla City Corporation (Cumilla CC) in Bangladesh.

**Keywords:** Violence, Harassment, Street Children, City Corporation (CC), Cumilla CC, Chottagram CC, Bangladesh.



## Insecticidal Effect of Castor Plant Leaf Powder (*Ricinus Communis*) on Cowpea Bruchid (*Callosobruchus Maculatus*) in Stored Cowpea Seeds

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Cowpea weevils (*Callosobruchus maculatus*), is a major storage insect pest of cowpea, lays its eggs on the pods or on seeds both in field and storage. The larva perforates the seeds and completes its life cycle there. It can cause loss, if not controlled in time. The objective of this research was to assess the efficacy and effect of Castor plants leaf powder CLP (*Ricinus communis*) on cowpea weevils (*C. maculatus*) as an alternative for preserving cowpea seed at storage in Kebbi State, Nigeria. The study was carried out in Kebbi State University of Science and Technology, Aliero, the experimental design of the study was Completely Randomized Design with three replications. Data collected included; the Number of dead weevils (NDW), Seeds Weight Loss (SWL) and Number of Damaged Seeds (NDS), experiment were recorded. Significant difference of ( $P < 0.05$ ) was recorded on efficacy of (CLP), mortality assessment revealed Standard Insecticide (SI) as the highest (NDW) with 6.70 while in (CLP) variables with 10grams 5.40 was recorded followed by (CLP) 5.0gram with 4.37, (CLP) 2.5gram 3.80 were reveal, while the lease value was revealed from Control (CON) with 2.53 and LSD0.005 value of 2.53 was also recorded. And during Seed Weigh Loss (SWL) analysis (CON) been the highest with 5.00, then (CLP) 2.5gram, 2.83 (SWL) was revealed, (CLP) 5.0gram 2.10, (CLP) 10gram 1.70 and (SI) with 1.33 (SWL) rate. However, the LSD0.005 was 0.73. Furthermore, the laboratory study of effect of test insect on seed term as (NDS), were reported as such, (CON) variable been with the high rate 26.67 (NDS), followed by (CLP) 2.5gram with 15.33, (CLP) 5.0gram, 12.00, then (CLP) 10gram with the rate of 9.33 while the lowest were (SI) 4.67 and with LSD0.005 number of 4.09 respectively. (CLP) have shown a great Bio-insecticidal activity against (*C. maculatus*) in storage.

**Keywords:** Castor Plant, Insecticidal effects, Cowpea Seeds, Cowpea weevils and Storage

## ***Antibacterial Activity of Moringa Oleifera against Klebsiella pneumoniae and Proteus Mirabilis***

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Antibacterial activity of Moringa oleifera plant was collected, Seed and bark were identified by a botanist in the department of plant science and biotechnology. The collected plants were shade dried and processed accordingly. Extraction was done using the fresh seed and bark which was air dried at room temperature for seven days after which it was pulverized to powder using mortar and pestle and stored in a plastic sterilized container, Twenty gram (20 g) of the air-dried powdered seed and bark was soaked in a methanol in a 200 ml conical flask, sealed with foil paper tightly and kept undisturbed for 24h. Phytochemical screening and in vitro antibacterial activity of seed and bark extracts of Moringa oleifera plant were investigated. The phytochemical screening revealed the presence of alkaloids, saponins, flavonoids, glycosides, steroids, and the absence of tannins. *Klebsiella pneumoniae* and *Proteus Mirabilis* were used to investigate the antibacterial activity of the plant extract using agar diffusion method against. The extracts inhibited the growth of all the tested bacteria at different concentrations. Methanolic extract exhibited higher antibacterial activity against *p. mirabilis* with zone of inhibition of 26mm, 20mm and 15mm. The results showed that the plant extracts have potent antibacterial activity on the tested bacteria which supports its use in herbal medicine and could be used to synthesize a novel antibacterial agent for the treatment of infection against *proteus mirabilis* and *klebsiella pneumoniae*.

**Keywords:** Antibacterial activity, Moringa oleifera, Seed, bark



## The Use of Artificial Intelligence in Writing Graduation Qualification Works by International Students

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The integration of Artificial Intelligence (AI) into academic writing has become increasingly prevalent, particularly among international students pursuing graduation qualification works. This abstract explores the implications, benefits, and challenges associated with using AI tools in this context. AI technologies, such as natural language processing and machine learning, provide students with resources that can enhance their writing skills, streamline research processes, and improve overall academic performance. International students often face unique challenges, including language barriers and unfamiliarity with academic conventions in their host countries. AI tools can assist in overcoming these obstacles by offering real-time grammar and style suggestions, facilitating better understanding of complex topics, and providing access to a wealth of information through advanced search capabilities. These tools not only aid in the writing process but also promote independent learning and critical thinking skills. However, the use of AI in academic writing raises ethical concerns, particularly regarding originality and plagiarism. There is a fine line between utilizing AI as a supportive tool and relying on it to produce work that lacks personal input and critical analysis. Educational institutions must address these issues by establishing clear guidelines on the acceptable use of AI technologies in academic writing. In conclusion, while AI presents significant opportunities for enhancing the writing capabilities of international students, it also necessitates careful consideration of ethical implications. By fostering a balanced approach that encourages the responsible use of AI tools, educational institutions can support international students in producing high-quality graduation qualification works while promoting academic integrity and originality.

**Keywords:** artificial intelligence, international students, graduation qualification works

## Integrating Unani Medicine in the Management of Type 2 Diabetes Mellitus

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Type 2 Diabetes Mellitus (T2DM) is a prevalent chronic condition that poses significant health challenges globally. Despite advances in conventional medicine, managing T2DM remains complex, with patients often experiencing side effects from long-term pharmaceutical treatments. Unani medicine, a traditional system with roots in ancient Greek and Islamic healing practices, has gained attention for its potential role in managing T2DM. Unani therapies focus on balancing the body's humors—blood, phlegm, yellow bile, and black bile—using natural remedies derived from herbs, minerals, and animal products. These formulations aim to regulate blood sugar levels, enhance insulin sensitivity, and address the underlying causes of diabetes, such as metabolic imbalances and inflammation. Key Unani herbs, such as Jamun (*Syzygium cumini*), Methi (*Trigonella foenum-graecum*), and Karela (*Momordica charantia*), are noted for their hypoglycemic and anti-inflammatory properties. Additionally, Unani dietary guidelines emphasize the importance of a balanced diet, regular exercise, and maintaining overall bodily harmony, complementing pharmacological interventions. Preliminary clinical studies and anecdotal evidence suggest that Unani medicine may offer a promising adjunctive therapy, enhancing glycemic control, reducing complications, and improving the quality of life for T2DM patients.

**Keywords:** Type 2 Diabetes Mellitus, Unani medicine, traditional medicine, insulin resistance, glucose metabolism, herbal remedies.





# The End