International Conference on AI in Daily Life: Innovations and Applications

CONFERENCE PROCEEDINGS

17th FEBRUARY 2025

Organized By

ARYAVART INTERNATIONAL UNIVERSITY

Dharmanagar, Tripura, India

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www.aiuniversity.edu.in

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Organized by:
The Aryavart International University
Dharmanagar, North Tripura

ISBN: 978-93-88683-39-5

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About Aryavart International University

Aryavart International University, established by the State Legislature of the Government of Tripura under Act No. 03 of 2023, is an institution committed to academic excellence. Recognized under Section 2(f) of the University Grants Commission (UGC) Act, 1956, and a proud member of the Association of Indian Universities (AIU), the university is dedicated to providing a transformative and globally relevant educational experience.

The university was founded with the vision of empowering individuals through high-quality education. Its establishment under the State Legislature reflects a strong commitment to promoting academic excellence and advancing educational standards in Tripura and beyond.

As a UGC-recognized institution, Aryavart International University adheres to the highest standards of education, ensuring academic integrity and compliance with the guidelines set by the University Grants Commission. This recognition reflects our commitment to quality and academic rigor.

Our membership with the Association of Indian Universities (AIU) enables us to engage in national and international collaborations. This affiliation underscores our dedication to fostering academic innovation, global perspectives, and continuous development within the educational sector.

Aryavart International University is devoted to creating a dynamic academic environment, providing students with the knowledge and skills necessary to excel in an increasingly interconnected world. Our focus on excellence is evident in our curriculum, faculty, and institutional values.

Our AIU membership enhances opportunities for global academic partnerships, offering students the chance to interact with diverse cultures and ideas. Aryavart International University encourages a global outlook, enriching the student experience with international academic exchanges and collaborations.

Located on a modern campus, Aryavart International University offers state-of-the-art facilities that foster an environment conducive to learning, research, and personal growth. Our infrastructure supports our commitment to providing a comprehensive educational experience of the highest quality.

About The Conference

The International Conference on AI in Daily Life: Innovations and Applications is set to take place on February 17, 2025. This conference aims to bring together researchers, academicians, industry professionals, and AI enthusiasts to explore the latest innovations and applications of artificial intelligence in everyday life. With AI rapidly transforming various sectors, this event serves as a platform for discussions on cutting-edge developments and real-world implementations.

The conference will feature keynote speeches by eminent AI experts, technical paper presentations, panel discussions, and interactive sessions. Participants will gain insights into emerging AI technologies, their impact on industries such as healthcare, education, finance, and smart cities, and the ethical considerations associated with AI deployment. Researchers will have the opportunity to showcase their work and engage in knowledge-sharing with peers from around the globe.

One of the key objectives of this conference is to highlight practical AI applications that enhance human life, optimize business processes, and contribute to societal advancement. The event will also facilitate networking among academia and industry, encouraging collaborations that drive AI-driven solutions forward. Accepted research papers presented at the conference will be included in the official proceedings, contributing to the growing body of knowledge in artificial intelligence.

This conference serves as a significant milestone in the exploration of AI’s role in shaping the future, offering participants a unique opportunity to engage with pioneering research and innovative solutions.

Message from the Chairman of Aryavart International University

Artificial Intelligence is no longer just a technological advancement—it is a force reshaping our world in ways we once only imagined. From healthcare to business, education to governance, AI is redefining how we live, work, and interact. It is in this spirit of transformation that Aryavart International University proudly hosts the International Conference on AI in Daily Life: Innovations and Applications on February 17, 2025.

This conference is not just about academic discourse; it is about bridging the gap between research, real-world implementation, and societal impact. As we navigate the ever-evolving AI landscape, collaboration between academia, industry, and policymakers is crucial. This event provides a platform for meaningful discussions, knowledge-sharing, and the exchange of innovative ideas that will shape the future.

I extend my sincere appreciation to all the brilliant minds gathered here—keynote speakers, researchers, students, and industry professionals. Your insights and contributions will drive forward AI's role in making daily life more efficient, intelligent, and inclusive.

Wishing you all a thought-provoking and inspiring conference experience!

Chairman
Aryavart International University

Message from the Chancellor of Aryavart International University

It is my great pleasure to welcome you to the International Conference on AI in Daily Life: Innovations and Applications, organized by Aryavart International University on February 17, 2025.

Artificial Intelligence is revolutionizing our world, shaping industries, and enhancing everyday experiences. This conference serves as a dynamic platform for researchers, academicians, and industry experts to exchange ideas, share innovations, and discuss the transformative impact of AI in various aspects of daily life.

At Aryavart International University, we are committed to fostering academic excellence, innovation, and collaboration. I sincerely appreciate the efforts of all the participants, keynote speakers, and organizing members who have contributed to making this event a reality. I am confident that the knowledge shared here will inspire new possibilities and future advancements in AI.

Wishing you all an insightful and enriching conference!

Dr. Gunjan Bansal
Chancellor
Aryavart International University

Message from the Pro-Chancellor of Aryavart International University

The International Conference on AI in Daily Life: Innovations and Applications, organized by Aryavart International University on February 17, 2025, marks a significant milestone in our ongoing commitment to advancing knowledge and fostering innovation.

As we embrace the rapid pace of technological advancements, AI stands out as one of the most powerful forces shaping the future. This conference will delve into AI's tangible impact on our everyday lives, exploring its applications in various sectors and its potential to drive sustainable solutions for global challenges.

Unlike traditional discussions, our focus will be on practical AI applications, showcasing how research and development translate into meaningful change in communities and industries. It's an opportunity to explore the intersection of academia, industry, and social good.

I am deeply grateful to all the experts, thought leaders, and participants who are contributing to this event. Together, we aim to drive forward AI innovations that make a real difference in society.

Wishing you an inspiring and productive conference experience!

Mr. Deepak Bansal
Pro-Chancellor
Aryavart International University

Message from the Vice-Chancellor of Aryavart International University

The International Conference on AI in Daily Life: Innovations and Applications, organized by Aryavart International University on February 17, 2025, marks a significant milestone in our ongoing commitment to advancing knowledge and fostering innovation.

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I am deeply grateful to all the experts, thought leaders, and participants who are contributing to this event. Together, we aim to drive forward AI innovations that make a real difference in society.

Wishing you an inspiring and productive conference experience!

Dr Prakash karmadkar
Vice-Chancellor
Aryavart International University

Message from the Director of Aryavart International University

Greetings, Respected Committee Members and Dear Participants.

As we commence this exciting journey with the International Conference on AI in Daily Life: Applications and Innovations, I am pleased to greet each and every one of you. In our shared attempt to deepen knowledge and explore the interesting field of artificial intelligence, this conference symbolizes a pivotal moment. We keep being reminded as we meet here today of the revolutionary ability of AI that could transform industries, improve lives, and push forward the boundaries of innovation. This conference will present an invaluable forum for addressing ground-breaking research, exchanging concepts, and supporting teamwork that will boost AI's future or its applications in a variety of industries.

It is unwise to underestimate the significance of this conference. AI is a subject of study as well as a driving force behind practical solutions. Understanding the constantly changing field of artificial intelligence (AI) and its potential to completely transform the way we live, work, and interact depends on the conversations, presentations, and debates that will take place during this event. I want to sincerely thank all of the attendees, speakers, and committee members for their commitment and diligence in making this event possible. Your work will have a major impact on the conference's success as well as the more general objectives of encouraging AI innovation and research.

As we explore the enormous potential of AI and its applications, let's make use of this chance to interact, work together, and motivate one another. I do not doubt that the knowledge acquired here will have a long-term effect on the advancement of AI technology and its responsible use for societal improvement. I appreciate your involvement and hope that the conference will be fruitful and rewarding for everyone.

Warm regards,

08/02/25

Mr. Pran Krishna Paul
Director
Aryavart International University

TABLE OF CONTENT

AI and Organisation Effectiveness

Dr. Harvinder Singh
Professor and Head, School of Management, Maharaja Agrasen University, Baddi, Himachal Pradesh

ABSTRACT

Artificial Intelligence (AI) is rapidly transforming the landscape of modern organizations, impacting strategic decision-making, operational efficiency, and competitive advantage. The talk will explore the multifaceted relationship between AI and organizational structures, processes, and outcomes. It examines how AI technologies, including machine learning, natural language processing, and computer vision, are being implemented across various organizational functions, such as human resources, marketing, finance, and operations. Furthermore, the abstract delves into the organizational challenges and opportunities presented by AI adoption, including issues related to workforce transformation, ethical considerations, data governance, and the need for new organizational capabilities. The impact of AI on organizational design, leadership, and innovation is also considered. Ultimately, the lecture highlights the critical importance of understanding and strategically managing the integration of AI to unlock its full potential for organizational success in an increasingly digital and data-driven world.

Synthesis and Antimicrobial Studies of Metal Complexes Derived from Schiff Base 1-phenyl-2,4-dithiobiurets, AI Application

Dr. Mayuri R. Joshi
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ABSTRACT

Artificial Intelligence (AI) has made significant strides in chemistry, providing powerful tools for research, discovery, and optimization across various branches of the field. Here are some notable applications of AI in chemistry:

Drug Discovery and Development, predicting molecular properties, Virtual screening, Drug repurposing, Material Science, High-throughput screening, Predictive maintenance, Spectroscopic data analysis: AI algorithms can interpret complex spectra (NMR, IR, mass spectrometry, etc.), identifying molecular structures and functional groups.

The work reported here deals with the synthesis and spectroscopic studies of some metal complexes with polydentate Schiff bases are reported here. These Schiff bases were derived by condensing carbonyl isonitrosoacetophenone with dithiobiurets.

The characterization of the complexes was done based on elemental analysis, molar conductivity, spectral IR, and electronic thermal analysis spectra. The metal complexes have been screened for their antimicrobial activity against laboratory-grown cultures of *Escherichia coli*, *Staphylococcus*, *B. cereus*, and *Bacillus subtilis*. This provided information of value in guiding and understanding their therapeutic use. The conductivity measurement indicates that they are non-electrolyte in nature.

The complexes are thermally stable, insoluble in water but soluble in organic solvents to varying extent. The room temperature magnetic susceptibility measurements indicate their octahedral geometry which is further supported by electronic absorption /diffuse reflectance spectra.

The complexes of metal complexes are synthesized compounds commonly show coordination numbers four, five, and six. On the basis of elemental analysis, conductance measurements, and thermal studies, an octahedral configuration may also be assigned to all the Zn(II), Cd(II), and Hg(II) complexes, with the coordinated water molecules providing the fifth and the sixth coordination sites for each metal ion.

The Future of Education: Integrating Bloom's Taxonomy with Artificial Intelligence

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ABSTRACT

The paper "The Future of Education: Integrating Bloom's Taxonomy with Artificial Intelligence" explores the transformative impact of artificial intelligence (AI) on education, particularly through the lens of Bloom's Taxonomy, which categorizes cognitive learning into six hierarchical levels: Remember, Understand, Apply, Analyze, Evaluate, and Create. It discusses how AI enhances each level of Bloom's framework by providing personalized, adaptive, and engaging learning experiences.

AI tools facilitate knowledge retention through personalized assessments and spaced repetition methods, while immersive technologies aid comprehension by simplifying complex concepts. The application phase is enhanced by scenario-based learning environments, allowing students to practice real-world skills. AI also supports analysis and evaluation through data processing and peer review tools, fostering critical thinking. At the creation level, AI empowers students to explore their creativity across various disciplines.

The paper highlights successful case studies, such as Duolingo for language learning and AI applications in special education, demonstrating AI's potential to customize learning experiences and improve educational outcomes. It concludes by acknowledging the significant role of AI in advancing personalized learning and assessment, while also addressing challenges in its implementation. Overall, the integration of AI with Bloom's Taxonomy represents a significant step toward more effective and inclusive educational practices.

Keywords: *Bloom's Taxonomy; Critical Thinking; Cognitive Learning; Learning Experience*

Use of AI in Ayurveda Surgical Treatment

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ABSTRACT

Ayurveda, the ancient Indian system of medicine, incorporates surgical techniques described in classical texts such as the Sushruta Samhita. With advancements in modern technology, artificial intelligence (AI) is increasingly being integrated into healthcare, including Ayurveda-based surgical treatments. AI offers significant potential in enhancing preoperative diagnosis, surgical precision, and postoperative care in Ayurvedic surgical procedures like Ksharasutra therapy, Agnikarma, and Jalaukavacharana (leech therapy).

This paper explores how AI-powered diagnostic tools, predictive analytics, and robotic assistance can improve patient outcomes in Ayurvedic surgery. Machine learning algorithms can analyze patient histories to personalize treatments, while AI-assisted imaging can aid in identifying conditions requiring surgical intervention. Additionally, AI-driven decision support systems can enhance the precision of surgical techniques, reducing complications and recovery time.

Despite these advancements, challenges remain in integrating AI with Ayurveda due to differences in traditional and modern medical approaches, data limitations, and regulatory concerns. Future research should focus on developing AI models trained on Ayurvedic principles, ensuring ethical implementation, and bridging the gap between traditional wisdom and modern technology.

This study highlights the transformative role of AI in Ayurveda-based surgical treatment, paving the way for a more efficient, precise, and holistic healthcare system.

Keywords: *Ayurveda; AI in Surgery; Ksharasutra; Agnikarma; AI in Healthcare; Traditional Medicine*

Artificial Intelligence and Machine Learning: Revolutionizing Technology and Applications

Aishwarya Shekhar
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ABSTRACT

Artificial Intelligence (AI) and Machine Learning (ML) have emerged as transformative technologies that are reshaping industries and human experiences. From healthcare and finance to autonomous systems and personalized services, AI and ML are advancing at an unprecedented pace. This paper reviews the fundamentals, evolution, and current applications of AI and ML, highlighting their integration into various sectors. It also explores the applications, benefits, and challenges of AI technologies in modern society Furthermore, the paper discusses challenges, ethical concerns, and future trends that will shape AI and ML technologies. By examining the broad impact of these fields, this review aims to provide a comprehensive understanding of AI and ML's potential and limitations.

Keywords: *Artificial Intelligence; Machine Learning; Deep Learning; Applications; Ethics; Challenges*

Artificial Intelligence (AI) in Healthcare: A Comprehensive Analysis

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ABSTRACT

Artificial Intelligence (AI) is transforming healthcare by enhancing diagnostic accuracy, improving treatment personalization, and streamlining administrative tasks. AI uses algorithms and machine learning to replicate human cognitive abilities like learning and reasoning, offering significant potential to improve patient outcomes, reduce costs, and increase efficiency. In medical imaging, AI algorithms analyze X-rays, MRIs, and CT scans to detect conditions such as tumors and fractures with high accuracy. AI also aids in predictive analytics by identifying high-risk patients and enabling early interventions. In personalized medicine, AI helps tailor treatments by analyzing patient data, such as genetic makeup and medical history, which is particularly useful in oncology for selecting the most effective cancer treatments. Natural Language Processing (NLP) is used to process medical records and clinical notes, making it easier for healthcare professionals to access important patient information. AI chatbots and virtual assistants provide 24/7 support, helping with symptom assessment and appointment management, thus reducing the burden on healthcare providers. AI is also speeding up drug discovery. Machine learning models analyze medical data and molecular structures to predict drug effectiveness, accelerating the early stages of development. Additionally, AI-powered wearable devices, such as ECG monitors, enable remote patient monitoring by tracking vital signs and alerting healthcare providers to any concerning changes, leading to early intervention and better care.

AI for Smart Cities and Sustainable Living

Annie Ranglong
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ABSTRACT

This Research paper is based on the topic of **AI for Smart City and sustainable living.**

In this era of technological advancement information is more powerful. Knowledge with fast information is essential for development of smart city.

'Smart city' concept-Walter Elias Disney started in Orlando Florida as Walt Disney. The following points throws light regarding Smart City:

- Smart Governance focuses on citizens centric digital platforms.
- Smart citizens through quality education.
- Smart energy.
- Smart technology
- Smart mobility
- Smart infrastructure
- Smart healthcare
- Smart environment

70% of the majority live in the metro cities. Due to this constant increase in cities, the cities needs to cop-up with constant increasing. Smart city are a concept of reducing energy consumption, better traffic management, waste management, good public services.

AI has the potential to transform smart cities and promote sustainable living. However addressing the challenges and limitation of AI is crucial to ensuring it's effective and

equitable adoption. Future research should focus on developing explainable, edge, and human-centered AI applications to create more livable, efficient and sustainable urban environments.

The Impact of AI in Teaching Learning Experience

Aparna Acharjee
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ABSTRACT

The topic of research study is based on "The Impact of AI in Teaching Learning Experience". The study focused on how Artificial Intelligence is set to transform education creating more personalized, efficient and engaging learning experiences. Technology continues to evolve the possibilities to AI in teaching and learning are boundless, offering opportunities to support students and educators in new and exciting ways. The study found that while AI holds great promise for enhancing the teaching learning experience, it must be integrated thoughtfully and responsibly. Educators and policy makers should address its limitations to ensure that AI benefits all students and complements rather than replaces, traditional teaching methods. While AI presents opportunities to enhance the teaching and learning experience, teachers face significant challenges in adapting to and integrating this technology. Addressing these issues requires proper training support and careful consideration of the ethical social and technical implications of AI in education. While AI offers great potential for enhancing education students face several challenges in using these technologies effectively. Addressing these issues requires careful planning, ongoing support and a focus on ensuring that AI tools are inclusive ethical and aligned with the needs of all learners.

Keywords: *Teaching learning; policy makers; learning experience; technology; education*

The AI Effect: How Higher Education Students Really Feel About Artificial Intelligence

Arun Kumar Sinha
MBA Student, The Aryavart International University, Dharmanagar, Tripura

ABSTRACT

Artificial Intelligence (AI) is rapidly influencing many aspects of life, including education. This study investigates how higher education students feel about AI. The topic is chosen due to the increasing presence of AI in universities and its impact on student's academic and social experiences. As AI technology becomes more integrated into various facets of education, understanding students' perceptions and attitudes is crucial for its effective implementation. The primary objective is to gauge students' awareness of AI, their acceptance levels, and the ways AI affects their studies and social interactions. This research employs percentage analysis, collecting data through surveys and analyzing it using Microsoft Excel. Surveys will capture students' responses on several key aspects of AI, such as their familiarity with AI technologies, their comfort level in using AI-driven tools, and their concerns or optimism about AI's role in education. Microsoft Excel will be used to calculate percentages, create visual representations of the data, and ensure a comprehensive analysis of the results. The methodology involves distributing online surveys to a diverse group of higher education students, followed by data collection and analysis to interpret the findings. The study will also pilot-test the survey questions to ensure they are clear and yield reliable data. The findings of this study will provide valuable insights into higher education students' attitudes toward AI and offer recommendations for improving AI's integration into university settings. The research aims to bridge the gap between technological advancements and student readiness, helping educators, policymakers, and technologists better support students in the era of AI. By understanding students' perspectives, stakeholders can develop strategies to enhance the educational experience and address any concerns or challenges related to AI implementation.

Keywords: *Higher Education; Student Perception; Academic Experience; Pilot-testing; Educational Technology*

Importance of AI in English Studies

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ABSTRACT

AI is becoming increasingly important in the field of English studies, enhancing learning, teaching, and research in various ways. AI-powered tools like Grammarly, QuillBot, and ChatGPT help students and professionals improve their writing by offering grammar corrections, style suggestions, and vocabulary enhancements. AI can provide instant feedback on sentence structure, coherence, and tone, enabling better communication skills. AI adapts to individual learning styles and paces, making English learning more effective for different proficiency levels. Language learning apps like Duolingo and LingQ use AI to customize lessons based on user progress. AI-driven translation tools such as Google Translate and DeepL help break language barriers and assist students in understanding English better. AI assists in analyzing literary texts, identifying themes, patterns, and stylistic elements in large volumes of literature. Researchers can use AI to explore historical language usage, compare different literary works, and generate insights quickly. AI-powered chatbots and virtual tutors make English learning more interactive and engaging for students. AI-generated storytelling tools help students develop creative writing skills. AI-based speech recognition tools help learners practice pronunciation and improve fluency. Apps like ELSA Speak and Google's speech tools analyze pronunciation and suggest improvements. AI-powered plagiarism checkers like Turnitin and Copyscape ensure originality in academic writing. These tools help students and educators maintain ethical writing practices. AI helps teachers design personalized lesson plans, create quizzes, and assess students' performance efficiently. Virtual teaching assistants reduce educators' workload by automating repetitive tasks.

AI is revolutionizing English studies by making learning more accessible, interactive, and personalized. It not only enhances writing, reading, and speaking skills but also supports educators and researchers in deeper linguistic and literary analysis. As AI continues to evolve, its role in English education will become even more transformative.

The Role of AI in the Learning Process

Chandan Kumar Debnath
Asst. Professor, Political Science and Humanities, Aryavart International University, Tripura

ABSTRACT

Artificial Intelligence (AI) is revolutionizing the learning process by enhancing personalization, efficiency, and accessibility in education. AI- Power tools such as intelligent tutoring system, adaptive learning platforms, automated assessment, cater to individual student needs, and optimizing knowledge acquisition. Machine learning algorithms analyze student performance to provide real-time feedback, enabling a data-driven approach to teaching. AI-driven chatbots and virtual assistant facilitate continuous learning by providing instant support. Additionally, AI bridges educational gaps by offering inclusive learning opportunities for students with disabilities. However, challenges such as data privacy, ethical concerns, and the digital divide must be addressed. As AI continues to evolve, it holds immense potential to transform traditional education into more dynamic student-centered experience.

Keywords: *Artificial Intelligence; Adaptive Learning; Machine Learning; Virtual Assistant; Digital Transformation.*

Leveraging AI-Driven UI Frameworks for Seamless User Experiences in Daily Life Applications

Gopi Chand Vegineni
Senior Software Engineer, USA

ABSTRACT

Modern application interfaces depend heavily on UI frameworks to create smooth and natural user experiences in digital environments. The emergence of AI technology is transforming modern UI frameworks so they can provide intelligent and personalized user experiences that adapt to user needs. The research study examines AI-driven UI frameworks which improve everyday application experiences through usability optimization as well as interaction automation and content personalization. AI-driven UIs use machine learning and natural language processing together with predictive analytics to dynamically adapt to user preferences while enhancing workflow efficiency and accessibility.

AI-powered chatbots alongside voice recognition interfaces and real-time behavior analysis are driving enhancements which result in more interactive and efficient applications across healthcare finance e-commerce smart home systems. By decreasing cognitive load and providing proactive help these frameworks anticipate user requirements which leads to increased productivity and user satisfaction. AI-powered UI frameworks allow developers to automate their design processes while detecting usability problems and producing responsive layouts requiring minimal manual input.

The research examines how AI integration into UI development improves user engagement and the accompanying privacy, security, and ethical challenges. The advancement of AI technologies will increase their importance in UI frameworks thus shaping the future of user experiences that are both intuitive and intelligent.

Keywords: *Artificial Intelligence; User Interface; Machine Learning; UI Automation; Human-Computer Interaction*

AI-Enhanced Metadata Management: The Future of Enterprise Data Discovery

Gopichand Vemulapalli
USA

ABSTRACT

Ever since I first recognized the beauty hidden within data, my career has been a journey of exploration, innovation, and human connection. Over the past 13 years, I have had the privilege of designing and implementing cloud-based platforms that not only streamline complex data processes but also empower organizations to make real-time, informed decisions. Whether it was modernizing ETL pipelines with Airflow and Databricks or harnessing the power of Snowflake, Spark, and Kafka to transform sprawling datasets into actionable insights, my work has always been driven by a passion for creating elegant, efficient solutions.

Beyond the technical realm, I have embraced opportunities to give back to the communities I serve. With 14 peer-reviewed publications enriching discussions in AI, ML, and data engineering and over 30 academic reviews. I have contributed to the collective learning and advancement of our field. Serving as a judge for distinguished awards like the Edison Awards and QS Reimagine Education Awards has deepened my commitment to nurturing innovation. Coupled with accolades such as Titan Technical Professional of the Year, Global Leaders Solution Architect of the Year, and a patent for the Machine Learning-Driven Interactive Customer Response Collection Unit, my journey is a testament to the belief that the true value of data lies in its ability to tell a story and inspire progress.

Every project, every collaboration, is a step toward a vision where technology and human insight combine to transform challenges into triumphs and ideas into lasting impact.

Exploring the Integration of Artificial Intelligence in Cognitive Psychology

Jagrity Kumari
Student, Pursuing Post Graduation (Psychology), C.M. College, Darbhanga

ABSTRACT

This research paper explores the intersection of Artificial Intelligence (AI) and Cognitive Psychology, investigating how AI techniques enhance our understanding of the human mind, cognitive processes, and psychological phenomena. The paper discusses AI's potential to simulate cognitive functions such as learning, perception, attention, memory, problem-solving, and decision-making. The relationship between cognitive models and AI algorithms, the use of AI in psychological research and therapy, and the ethical implications of AI in cognitive science are examined. The findings underscore the role of AI in advancing the field of Cognitive Psychology, while also addressing challenges and future prospects.

Keywords: *Artificial Intelligence (AI); AI in Therapy; Cognitive Psychology; Cognitive Modeling; Machine Learning; Neural Networks; Reinforcement Learning; Deep Learning; Cognitive Assessment; AI-Driven Therapeutic Tools; AI in Neurological Disorders; AI Bias in Psychology; AI and Cognitive Decline*

AI in Education

Karishma Dhar
MBA Student, Aryavart International University, Dharmanagar, Tripura

ABSTRACT

In the digital age, artificial intelligence (AI) is revolutionizing education by enhancing learning experiences, streamlining administrative tasks, and bridging accessibility gaps. This study explores how AI-driven tools—such as adaptive learning platforms, intelligent tutoring systems, automated grading, and data analytics—are reshaping both classrooms and institutions. By examining compelling case studies, we will reveal how AI personalizes instruction, empowers educators with data-driven insights, and democratizes access to quality education.

Simultaneously, the study addressed critical challenges including ethics, equity, data privacy, and the evolving role of human educators. Attendees will gain actionable insights into fostering responsible AI adoption that prioritizes student success, teacher collaboration, and inclusive innovation in the digital age.

Harnessing AI and ERP for Real-Time Insights and Predictive Analytics

Kulasekhara Reddy Kotte
USA

ABSTRACT

In today's fast-paced business environment, real-time insights and predictive analytics are critical for maintaining a competitive edge. This paper explores the integration of Artificial Intelligence (AI) with Enterprise Resource Planning (ERP) systems to achieve these objectives. By harnessing the power of AI, organizations can enhance their ERP systems to process vast amounts of data in real time, uncover hidden patterns, and provide actionable insights.

We discuss the potential of AI-driven ERP solutions in various business functions, including finance, supply chain management, and human resources. The paper highlights how predictive analytics can forecast future trends, optimize operations, and drive strategic decision-making. Additionally, we examine case studies of successful AI and ERP implementations and their impact on organizational performance.

This paper aims to provide a comprehensive understanding of the synergies between AI and ERP, and how they can be leveraged to transform data into valuable insights, ultimately enabling businesses to thrive in the digital age.

Building an Intelligent Data Governance Framework: Integrating AI for Automated Compliance

Muniraju Hullurappa
System Soft Technologies, Irving Texas, USA

ABSTRACT

Data governance is a critical aspect of modern enterprises, ensuring that data is accurate, secure, and compliant with regulatory requirements. Traditional approaches to data governance face challenges such as scalability, complexity, and the increasing volume of data. This presentation explores how Artificial Intelligence (AI) can enhance data governance frameworks by automating compliance processes, reducing human error, and improving efficiency. AI-driven solutions enable organizations to classify data, enforce policies, monitor compliance, and assess risks in real-time. The discussion includes key AI technologies such as Machine Learning, Natural Language Processing, and Robotic Process Automation, along with an implementation framework for intelligent data governance. Additionally, a case study demonstrates the practical benefits of AI in compliance management. The presentation concludes with insights into emerging trends, challenges, and future directions in AI-powered data governance, emphasizing the importance of adopting intelligent solutions for regulatory compliance and risk management.

Keywords: *Scalability Challenges; Data Security; NLP; RPA; Data Classification; Compliance*

The AI Revolution in Journalism: Automation, Content Creation, and the Future of News

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ABSTRACT

AI is changing journalism by transforming the production, distribution, and consumption of news. The use of automated journalism, enabled by AI-driven technologies such as NLP and machine learning, allows for rapid creation of news articles, multimedia content, and personalized reporting on an unprecedented scale.

This paper intends to discuss the increasing role of AI in news automation and content creation, analyzing its efficiency, accuracy, and scalability benefits with a dash of discussion on ethical implications related to editorial control, bias, and credibility. Based on industry case studies and media trends, it examines how AI-driven automation is changing the journalistic workflow, whether this is to supplement human journalists or disrupt the traditional newsroom. This study aims to discuss the advancement process of AI toward journalism and also sheds light on what opportunities are now accompanied by challenges within a digital news ecosystem.

Keywords: *Artificial Intelligence; Automated Journalism; AI-Generated News; Content Automation; Newsroom Innovation; Future of Media; AI News.*

Integration of Machine Learning and Deep Learning in the Field of Taxonomy: A Review

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ABSTRACT

Identifying living things accurately and effectively is essential in many disciplines, such as ecology, agriculture and medicine. Conventional approaches can be subjective and time-consuming and they frequently depend on specialist knowledge. In this article, the use of Deep Learning (DL) and Machine Learning (ML) approaches for automated organism identification has been reviewed. The use of supervised learning methods, including Random Forests, Support Vector Machines (SVM) and Convolutional Neural Networks (CNNs), to categorize organisms according to morphological traits, genetic sequences and acoustic data. While the programs like ML and DL have the ability to enhance the precision, speed and objectivity of organism identification, CNNs perform better in image-based classification tasks. These developments have important ramifications for disease diagnostics, tailored therapy, biodiversity monitoring and taxonomic identification.

Keywords: *Machine Learning; Deep Learning; Classification; Biodiversity; Organism Identification*

Eco-Friendly IoT Networks: Combining Green Cloud Solutions and Sustainable Design

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ABSTRACT

The rapid evolution of the Internet of Things (IoT) has resulted in significant advancements in connectivity, automation, and data analysis. However, the deployment and operation of large-scale IoT networks are increasingly causing concerns over their environmental impact, especially in terms of energy consumption, e-waste, and resource depletion. Green Cloud Computing and IoT aim to address these challenges by focusing on energy-efficient designs, renewable energy adoption, and sustainable practices. To address these concerns, the integration of green cloud solutions and sustainable design principles in IoT networks is essential. This paper presents an overview of green cloud computing and IoT, examines their integration, challenges, and the benefits they offer in reducing environmental footprints. We explore innovative techniques and solutions that have emerged in the field and provide recommendations for future research.

Understand AI's Application in Banking, Fraud Detection, Personalized Financial and Business Optimization

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ABSTRACT

Artificial intelligence (AI) is revolutionizing the financial and business landscape by providing innovative solutions to complex challenges. This paper explores AI's transformative applications in banking, fraud detection, personalized financial planning, and business optimization. By leveraging machine learning algorithms and natural language processing, AI-powered systems can analyse vast amounts of data to identify patterns, predict market trends, and detect anomalies. Moreover, AI-driven chatbots and virtual assistants are enhancing customer experiences and streamlining financial transactions. This paper highlights the benefits, challenges, and future directions of AI adoption in the financial and business sectors, providing valuable insights for professionals, policymakers, and entrepreneurs seeking to harness AI's potential for growth and innovation.

Unlocking the Future of Entrepreneurship: Powered By AI

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ABSTRACT

In this rapidly evolving business world, AI is playing a transformative role in the field of entrepreneurship. AI can help in exploring new business dimensions along with significant benefits in terms of productivity. As AI continues to evolve, it can influence every stage of entrepreneurship, from idea generation and product development to marketing and sales. AI can offer entrepreneurs the ability to make data-driven decisions that are faster and more accurate than ever before. The objective of the paper is to analyze the different ways in which AI has and can contribute to the field of entrepreneurship by analysis of Market, Customer segmentation, and Financial forecasting and how entrepreneurs can navigate ethical concerns, ensure data privacy, and address the potential risks of technology-driven inequality.

This paper also emphasizes the importance of strategically leveraging AI to not only drive success but also contribute to a more sustainable entrepreneurial ecosystem. Ultimately, AI can unlock new dimensions of possibility, providing entrepreneurs with the tools to thrive in an ever-changing business landscape.

Keywords: *Entrepreneurship; Financial forecasting; Customer segmentation; Sustainable; Business Landscape*

E-Learning for Intelligent Devices

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ABSTRACT

The advancement of intelligent devices has revolutionized the field of e-learning, opening new opportunities for personalized, efficient, and scalable educational experiences. Intelligent devices, including smartphones, tablets, and Internet of Things (IoT)-enabled gadgets, have drastically reshaped how education is delivered and consumed. It has transformed traditional educational approaches by enabling more personalized, accessible, and efficient learning experiences. The evolution of technology has had profound effects on the education sector, particularly in the domain of e-learning. This review paper investigates the integration of intelligent devices into e-learning environments, highlighting the underlying technological innovations, assessing the technological foundations, educational implications, pedagogical impacts, and challenges associated with this trend and future directions.. The paper also highlights future directions and suggests possible improvements to optimize e-learning environments through intelligent devices.

Keywords: *e-learning; intelligent devices; Internet of Things (IoT); artificial intelligence (AI); machine learning (ML); mobile learning; personalized education; educational technology.*

From Rules to Intelligence: Transforming Traditional Data Governance with AI

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ABSTRACT

Traditional data governance, built on rigid rule-based frameworks and manual oversight, often leads to inefficiencies, compliance risks, and scalability challenges. As organizations generate vast amounts of data, static governance models struggle to adapt to evolving regulatory requirements and security threats. The lack of real-time monitoring and reliance on human intervention further hinder effective policy enforcement, making organizations vulnerable to governance failures. With data landscapes becoming increasingly complex, there is a critical need for a more intelligent, automated, and adaptive approach to data governance.

This presentation delves into how AI-driven governance transforms traditional models by leveraging technologies such as Machine Learning (ML), Natural Language Processing (NLP), and Generative AI. We will discuss key components, including automated data discovery, intelligent policy enforcement, real-time compliance monitoring, and adaptive security controls and a few advanced data governance concepts. Attendees will gain insights into the benefits of AI-driven governance, such as improved efficiency, proactive decision-making, and scalable governance frameworks, while also addressing challenges related to data privacy, ethical concerns, and implementation complexities. Looking ahead, the session will highlight future trends, including autonomous governance systems, AI-driven trust frameworks, and the integration of AI with decentralized architectures like Data Fabric and Data Mesh. By embracing AI, organizations can transition to a more intelligent, scalable, and proactive governance approach - maximizing data value while ensuring security, compliance, and adaptability in an evolving regulatory landscape.

Transforming Daily Life: The Impact of AI on Society and Education

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ABSTRACT

AI is no longer a futuristic concept; it's a reality that's transforming our daily lives. From virtual assistants to smart home devices, AI is making our lives more convenient, comfortable, and enjoyable. AI is transforming the education sector in many ways. AI-powered adaptive learning systems are providing personalized learning experiences for students. Artificial intelligence (AI) has permeated every aspect of daily life, revolutionizing the way we live, work, and interact. From intelligent personal assistants to self-driving cars, AI-powered innovations have transformed the fabric of modern society. As AI continues to transform daily life, it is essential to address the challenges and concerns associated with its development and deployment. By prioritizing ethics, transparency, and accountability, we can harness the full potential of AI to create a better future for all.

Keywords: *Adaptive Learning; Innovation; Revolutionize; Transparency; Accountability; Artificial Intelligence*

AI-Driven Database Security: Integrating PAM for Robust Access Control

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ABSTRACT

As cyber threats continue to evolve in sophistication and scale, traditional database security mechanisms are proving insufficient to safeguard sensitive information. This paper investigates the integration of Artificial Intelligence (AI) with Privileged Access Management (PAM) systems to enhance database security through adaptive, intelligent access control. By harnessing machine learning algorithms, AI-driven solutions can dynamically analyze user behavior, detect anomalies, and predict potential security threats in real-time. This integration allows for context-aware, automated enforcement of security policies, offering a more agile and precise approach to managing privileged access. Combining AI with PAM not only minimizes the attack surface but also strengthens defenses against both insider and external threats. The paper explores the architecture, advantages, and challenges of deploying AI-powered PAM systems in contemporary database environments, and highlights how these innovations can significantly bolster existing security frameworks to address the growing complexities of modern cyber risks.

Keywords: *Database Security; PAM; Machine Learning Algorithms; Real-time Security; Dynamic Access Control*

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ISBN: 978-93-88683-39-5