

E-NEWSLETTER

By The AI Research Centre, Woxsen University

■ AIKP

The AIKP Conference 2024 held from 22nd Aug to 24th Aug, has concluded on a successful note bringing together leading experts in AI and knowledge processing.

■ Meta Student Upskilling

The Student Skill Enhancement quiz game facilitates interactive learning for up to 100 participants, offering real-time tracking and experiences through Meta and AI.

■ 15TH IEEE ICCCNT

The 15th IEEE ICCCNT conference held at IIT Mandi, Dr. Pranjali Gajbhiye presented her groundbreaking research.



AIKP '24

The International Conference on Artificial Intelligence and Knowledge Processing (AIKP 2024) launched with enthusiasm, featuring insightful opening remarks from Dr. Randall Carolissen and an engaging presentation by Prof. Abejide Ade-Ibijola on the use of AI in education.



Future Tech Summit' 24

@ AI Research Centre,
Woxsen University, Hyderabad

19th and 20th December 2024

PROGRAMS

-  **Technical Panels**
-  **Workshops on Emerging Technologies**
-  **Startup Showcases**
-  **Networking Events**
-  **Corporate and Academia Engagements**

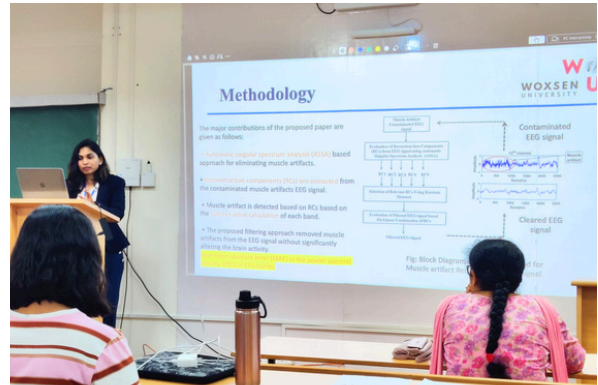
Stay Tuned for More Updates!

The AI Research Centre at Woxsen University is gearing up to host the Future Tech Summit '24, a two-day event that promises to be a hub for innovation and technological advancements. Scheduled for December 19th and 20th, 2024, this summit will bring together experts, researchers, and industry leaders to discuss the latest trends and breakthroughs in artificial intelligence.

■ ICCNT 24TH-28TH JUNE 2024

At the 15th IEEE ICCNT conference held at IIT Mandi, Dr. Pranjali Gajbhiye of Woxsen University presented her groundbreaking research on eliminating muscle artifacts from EEG signals using Automatic Singular Spectrum Analysis. The event featured impactful keynote sessions by Prof. Kamesh Namuduri of the University of North Texas and Dr. Daniel J., Ph.D., of the United Service Institution of India, offering deep insights into cutting-edge research.

Dr. Gajbhiye actively engaged with prominent academics and explored potential collaborations during a visit to IIT Mandi's HCI lab, led by Dr. Gaurav Jaswal. These discussions have set the stage for promising neuroscience-based projects between Woxsen University and IIT Mandi.



STUDENT SKILL ENHANCEMENT (META+GENAI)

The "Student Skill Enhancement (Meta+GenAI)" quiz game is an innovative educational tool designed to promote interactive learning in both classroom and virtual settings. Supporting up to 100 participants, it features real-time score tracking and an intuitive interface for a seamless user experience. This approach not only motivates students but also provides instructors with valuable insights into progress, making it a powerful tool for improving educational outcomes.



ASIA PACIFIC COATINGS SHOW IN JAKARTA

Dr. Shahid Mohammad Ganie is set to speak at the upcoming Asia Pacific Coatings Show in Jakarta, Indonesia, from 11th to 13th September 2024. His presentation will focus on the transformative impact of AI on the coatings industry, highlighting advancements in product quality and efficiency.



ARTIFICIAL INTELLIGENCE AND KNOWLEDGE PROCESSING (AIKP) CONFERENCE 2024

The AIKP Conference 2024, organised by University of Johannesburg, South Africa, St. Thomas University, USA, and Woxsen University, was held from August 22nd to 24th.

Over the course of three days, the conference was marked by a series of high-caliber sessions, where attendees were exposed to the latest advancements in AI, from innovative algorithms and data processing techniques to emerging applications in various industries. The exchange of knowledge and ideas was not only informative but also sparked inspiration among participants, leading to new collaborations and potential breakthroughs in the field.



The conference was concluded on a high note, bringing together leading experts in AI and knowledge processing. The event was marked by dynamic discussions and groundbreaking ideas, highlighting the latest advancements in the field.



SUCCESSFUL SLEEP LECTURE BY DR. HARSHINI ERRABELLI

Dr. Harshini Errabelli, a leading specialist from Sleep Therapeutics Hospital in Hyderabad, delivered an impactful guest lecture at Woxsen University, focusing on the importance of sleep and strategies for improving sleep quality.

The session, well-attended by faculty and researchers, highlighted common sleep disorders, diagnostic techniques, and practical lifestyle changes. The event was a great success, thanks to the support of the AI Research Centre and the Woxsen community.



T-HUB'S "AI FOR STARTUPS" EVENT IN HYDERABAD

Dr. Rajesh Kumar K V, recently took the stage at T-Hub's "Vision to Impact - AI for Startups" event in Hyderabad. The event, which brought together entrepreneurs, industry leaders, and AI enthusiasts, centered on the transformative potential of artificial intelligence in the startup ecosystem.

Invited by The Entrepreneur Zone (TEZ), Dr. Rajesh Kumar K V shared his expertise on how AI is revolutionizing the way startups operate, from enhancing decision-making processes to automating mundane tasks, thereby enabling startups to focus on innovation and growth. His insights underscored the critical role AI plays in providing startups with a competitive edge in an increasingly tech-driven market.

AI RESEARCH CENTRE
COE
Centre of Excellence
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WOXSEN UNIVERSITY

2 Days Online Workshop on
**Machine Learning Techniques
in Healthcare Industry**
By CoE-SCIN DATA and AI Research Centre

Day 1: Introduction to Machine Learning in Healthcare Informatics (5 Hours)
Session 1: Introduction to Machine Learning Models (1 Hour)
Session 2: Setting Up the Environment (1 Hour)
Session 3: Data Collection and Wrangling (1.5 Hour)
Session 4: Data Preprocessing, and Feature Engineering (1.5 Hours)

Day 2: Building Machine Learning Models for Smart Healthcare Systems (5 Hours)
Session 5: Building Machine Learning Models (2 Hours)
Session 6: Ensemble Learning Approach for Health Data (1.5 Hours)
Session 7: Advanced Applications and Case Studies (1.5 Hours)

4th & 5th
October, 2024
Mode: Online

For more information
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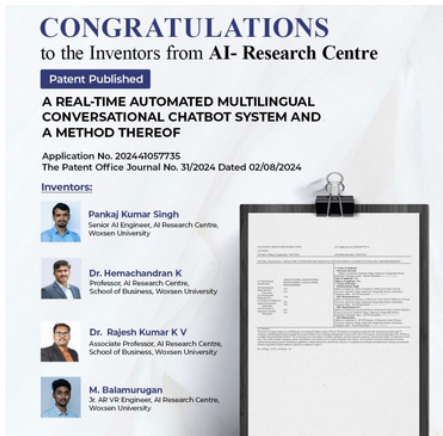
Scan for Registration

www.woxsen.edu.in

WORKSHOP ON MACHINE LEARNING IN HEALTHCARE

The AI Research Centre at Woxsen University is set to host an insightful 2-day online workshop focused on "Machine Learning Techniques in the Healthcare Industry." Aimed at professionals, researchers, and students, this event will explore the powerful impact of machine learning on the healthcare sector, covering topics from predictive analytics to personalized medicine.

PATENTS AND RESEARCH PUBLICATIONS



The AI Research Centre has secured a patent for its groundbreaking innovation, "**Real-Time Automated Multilingual Conversational Chatbot System and a Method Thereof.**" This advanced system enables seamless, real-time multilingual communication, marking a major milestone in AI-powered conversational technology. Leading the project were **Dr. Hemachandran K, Dr. Rajesh Kumar K V, and Balamurugan M.** This patent further solidifies the AI Research Centre's position at the forefront of technological innovation.

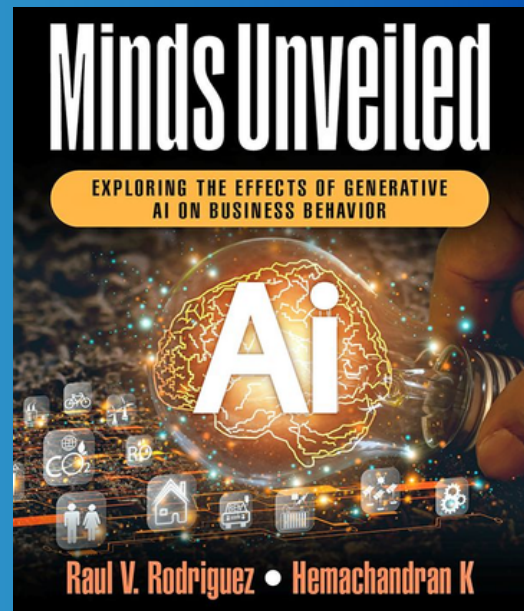
The "**System and Method for Accessing and Authenticating Digital Artifacts**" patent, a significant development, was published. Handling digital assets will become more efficient and secure thanks to this novel technology. Leading figures in this regard are **Dr. Rajesh Kumar K V**, an associate professor, and **Tarun Kotagiri**, a junior blockchain engineer. With the use of blockchain and AI technologies, the AI Research Centre is able to shape the future of digital interaction, as evidenced by this accomplishment.



The granting of the patent for the "**Multiple Disease Diagnosis and Healthcare Management System and its Method Thereof**" represents a significant breakthrough in healthcare innovation. This state-of-the-art system improves the identification of various illnesses and streamlines the administration of healthcare. The collaborative work of **Dr. Hemachandran K, Dr. Rajesh Kumar K V, Dr. Raul Villamarin Rodriguez, and Dr. Shahid Mohammad Ganie** is reflected in the patent. This accomplishment highlights the commitment of the AI Research Centre to expanding the frontiers of medical technology.

UPCOMING RELEASE OF A NEW BOOK

In the rapidly evolving landscape of technology, generative AI is emerging as a powerful force reshaping businesses across industries. To provide a deeper understanding of its impact, AI Research Centre announced the upcoming release of a new book, *Minds Unveiled: Exploring the Effects of Generative AI on Business Behavior*.

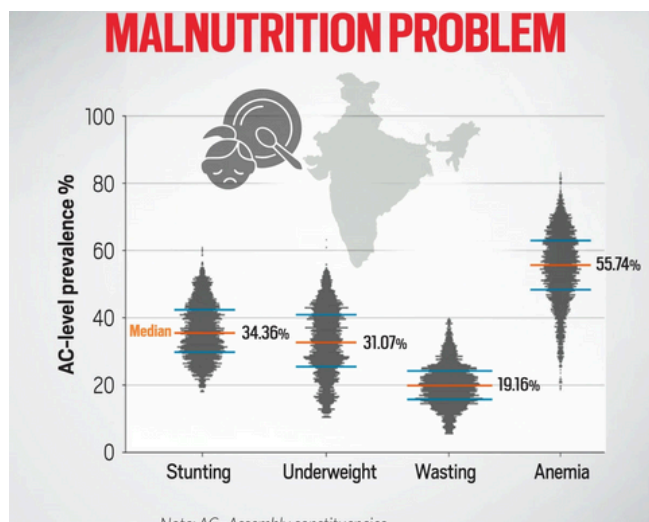


MAPPING A HEALTHIER FUTURE: HOW GEOSPATIAL TECH IS TACKLING MALNUTRITION IN INDIA

Malnutrition remains a pressing issue in India, affecting millions of people. The AI Research Centre at Woxsen University is exploring how cutting-edge geospatial technologies can make a significant impact.



Their latest article by Vineet Singh, Research Associate at AI Research Centre on, *Spatial Intelligence in Action: Leveraging Geospatial Tools to Tackle Malnutrition in India*, delves into how GIS, remote sensing, and spatial analytics are being used to identify vulnerable regions, optimize resource allocation, monitor agricultural practices, and enhance health outcomes.



By combining these technologies, researchers and policymakers can gain a deeper understanding of malnutrition patterns, pinpoint areas most in need of assistance, and tailor interventions to address specific challenges. This data-driven approach ensures that resources are used effectively and that the most vulnerable populations receive the support they need. These innovative solutions are paving the way for a healthier India.

ESTEEMED MEMBERS

DR. RAUL VILLAMARIN RODRIGUEZ

VICE PRESIDENT AT WOXSEN UNIVERSITY

DR. HEMACHANDRAN K

DIRECTOR - AI RESEARCH CENTRE

DR. RAJESH KUMAR K V

CHIEF TECHNOLOGICAL SCIENTIST - AI RESEARCH CENTRE

DR. SHYAM JOSHI

CHIEF RESEARCH SCIENTIST - AI RESEARCH CENTRE

DR. SUNDARAMURTHY PANDURANGAN

CHIEF AI SCIENTIST - AI RESEARCH CENTRE

DR. MANUEL RINCON

STRATEGIC ADVISOR- AI RESEARCH CENTRE

DR. ANINDITA MAJUMDAR

SENIOR RESEARCH SCIENTIST - AI RESEARCH CENTRE

DR. PRANJALI GAJBHIYE

RESEARCH SCIENTIST - AI RESEARCH CENTRE

DR. SHAHID MOHAMMAD G

RESEARCH SCIENTIST - AI RESEARCH CENTRE

MR. VINEET SINGH

RESEARCH ASSOCIATE - AI RESEARCH CENTRE

MR. VIGNESH RAVICHANDRAN

MANAGER - AI RESEARCH CENTRE

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