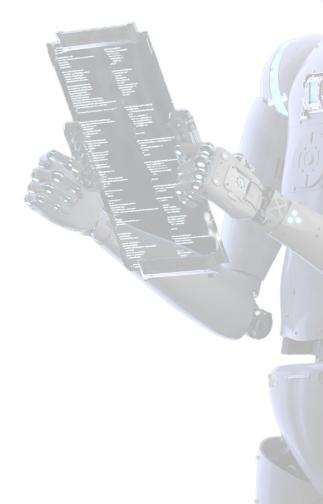


Monthly Newsletter

By the AI Research Centre, Woxsen University

Welcome to the Al Research Centre at Woxsen University, a leading hub dedicated to pushing the boundaries of artificial intelligence research and innovation. Located within one of India's most dynamic academic ecosystems, the Centre is focused on leveraging AI to create transformative solutions that address real-world challenges and promote societal advancement. Our interdisciplinary team of professors, researchers, executive fellows, and students actively engages in cutting-edge work across areas such as machine learning, natural language processing, computer vision, robotics, blockchain, cybersecurity, and the metaverse. With a clear vision to become a globally recognized centre of excellence, we are committed to fostering ethical AI interdisciplinary development, promoting collaboration, and building impactful partnerships with industry, academia, and government. Through our mission-driven efforts, the AI Research Centre at Woxsen University is shaping the future of technology and empowering the next generation of innovators.





Spotlight Release: A Dead Spider. A Surgeon's New Tool?



The Al Research Centre at Woxsen University is proud to announce the release of the book "Necrobotics for Healthcare Applications and Management," published by Academic Press in February 2025. This groundbreaking work explores how deceased organisms, like spiders, can be repurposed as functional tools in medical robotics, offering sustainable and innovative alternatives in surgical and biomedical applications.

Co-authored by global experts—Dr. Raul Villamarin Rodriguez, Dr. Hemachandran K, and Dr. Rajesh Kumar K V—the book addresses both the technical and ethical dimensions of necrobotics. It presents real-world applications and examines the implications of using organic materials in robotic systems. Already featured in ABC Tecnología, Spain, the publication highlights Woxsen University's commitment to pushing the boundaries of research at the intersection of biology, robotics, and healthcare innovation.

Woxsen Summer School 2025 Empowers Young Innovators with High-Impact AI Code Challenge Session



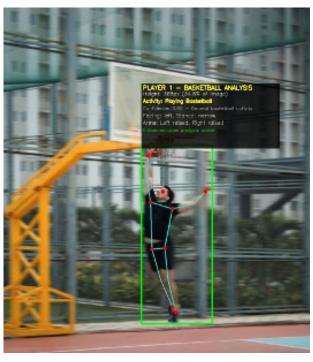


The Al Research Centre at Woxsen University successfully conducted a highenergy Code Challenge Session as part of Woxsen Summer School 2025. Designed as a real-time, hands-on experience, the together brought student session developers and university mentors to collaboratively solve complex coding problems in a fast-paced, innovationdriven environment. Participants were encouraged to think critically, code creatively, and work under time constraints—simulating the kind challenges encountered in modern tech industries.

This initiative placed strong emphasis on experiential learning, helping students build foundational programming skills while fostering adaptability, teamwork, and a growth mindset. By integrating elements of AI, data science, and problem-solving into the challenge, the session aimed to spark curiosity and prepare participants for future careers in technology. The Code Challenge emerged as a standout feature of the Summer School, reflecting Woxsen University's commitment to empowering talent through meaningful, young hands-on learning experiences.

Al Research Centre at Woxsen University Bridges Sports and Technology with Al-Driven Performance Analytics

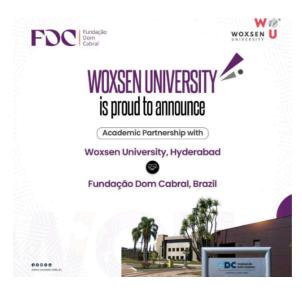




In a significant move from theory to real-world application, the Al Research **Centre** at Woxsen University, led by Dr. Rajesh Kumar K V, is advancing Aldriven analytics to improve athletic performance in live sports. The project, "Al x Sports Performance – From Lab to Field," uses computer vision and data science to track player movements, analyze poses, and generate performance metrics during basketball games. These insights help coaches and trainers make informed decisions. personalize training, and optimize gameplay—all in real time

What makes this project unique is its practical integration of cutting-edge Al with live sports environments. It offers a scalable tool for both professional teams and grassroots programs, enhancing player development and injury prevention. This initiative reflects University's Woxsen commitment to innovation positions the Al Research Centre as a leader in sports technology research, showcasing how Al can reshape performance strategy and training in the athletic world.

Global AI Collaborations: MoU for Student-Startup Funding at World Summit AI & India-Spain AI Dialogue at Spanish Embassy





WORLD SUMMIT AI, SAN FRANCISCO - STUDENT-STARTUP FUNDING MOU

At Day 2 of the prestigious World Summit Al in San Francisco, Dr. Hemachandran K represented Woxsen University in the signing of a transformative Memorandum of Understanding (MoU) with Funding Innovation Network, LLC, based in New York. This milestone agreement aims to open up funding and growth avenues for student-led startups and entrepreneurial ventures emerging from the university's School of Business and Al Research Centre.

This partnership is a bold step forward in linking academic innovation with global funding ecosystems. It promises to empower aspiring business leaders and young innovators, aligning academic pursuit with real-world impact.

India-Spain Al Summit at Spanish Embassy, Delhi

Woxsen University made its mark at the Indo-Spain Al Meeting held at the Spanish Embassy in Delhi. Dr. Hemachandran & Dr. Rajesh Kumar K V and joined leading thinkers and entrepreneurs for engaging discussions on Al's cross-sector adoption in healthcare, aviation, legal tech, and more.

The event fostered rich exchanges around current and upcoming initiatives spearheaded by the AI Research Centre at Woxsen. Collaborations were explored with various startups and diplomatic partners, reinforcing the university's global outreach in innovation.

Al Book Series Launch – Taylor & Francis: Advancing Global Research in Artificial Intelligence and Emerging Technologies

Dr. Raul Villamarin Rodriguez, in partnership with Taylor & Francis, has launched a groundbreaking Al book series, designed to take readers from fundamentals to advanced applications through real-world case studies. Officially unveiled at a panel discussion in Amsterdam, the series offers a structured path for industry professionals and students alike. This initiative stands out for blending theoretical knowledge with industry-tested applications, serving as a practical guide for anyone interested in the evolving world of Al.



Dr. Hemachandran K, Woxsen University



WEBIT 2025 Conference, Sofia – Showcasing Innovations in AI for Personalized and Inclusive Learning Experiences



At WEBIT 2025 in Sofia, Bulgaria,

Dr. Hemachandran K delivered an inspiring keynote titled "Learning that Listens: How AI is Personalizing Education for Every Student."

His presentation emphasized how AI can tailor education to individual learning needs, making it more inclusive, adaptive, and impactful. Discussions extended to potential research collaborations with BCG, Sofia University, and Webit Foundation to create a user-centered AI research ecosystem.

Call for Papers Now Open – AIKP'25: 5th International Conference on Artificial Intelligence and Knowledge Processing



The AI Research Centre at Woxsen University, in collaboration with ENAE Business School, Spain, invites researchers, academicians, and industry experts worldwide to submit their original research, white papers, and case studies to AIKP'25.

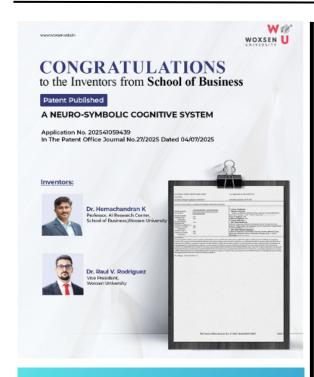
Be a part of a transformative platform that drives Al for global impact through interdisciplinary collaboration, academic excellence, and thought leadership

IDEA CLINICS DIABETES & ENDOCRINOLOGY NATIONAL CONFERENCE, HYDERABAD

Dr. Hemachandran K led a panel discussion on "AlRobotics in Chronic Healthcare" at the National Conference hosted by Idea Clinics. The session explored how Al and robotics are shaping the future of chronic disease management, particularly in diabetes and endocrinology.

Held at The Park in Hyderabad, the event brought together healthcare experts to discuss innovations that aim to reduce the burden on patients and improve long-term outcomes





PATENT GRANTED FOR NEURO-SYMBOLIC COGNITIVE SYSTEM AT WOXSEN UNIVERSITY

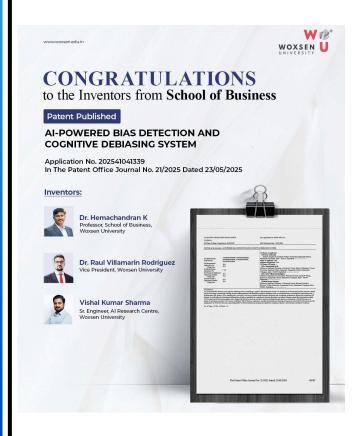
The Al Research Centre at Woxsen been granted a patent for its pioneering innovation - the Neuro-Symbolic Cognitive System. This advanced Al seamlessly integrates symbolic reasoning with neural learning, offering a humanaligned approach to cognitive computing. Designed to adapt to human cognitive workflows, the system can assist users under cognitive load while also providing transparent, explainable outputs—a critical need in today's Al-driven environments. The invention is the result of collaborative research by **Dr. Hemachandran K** and **Dr.** Raul V. Rodriguez, and was officially published in the Patent Office Journal (India) on July 4, 2025 under Application No. 202541059439.

Woxsen University Secures Patent for Al-Based Bias Detection System

Researchers from Woxsen University's School of Business have been granted a patent for their innovative system titled "Al-Powered Bias Detection and Cognitive Debiasing System", aimed at identifying and mitigating bias in both human decision-making and Al algorithms.

Published under Application No. 202541041339 in The Patent Office Journal (Issue No. 21/2025), the invention is credited to **Dr. Hemachandran K, Dr. Raul Villamarin Rodriguez, and Mr. Vishal Kumar Sharma** of the Al Research Centre. The system uses advanced Al to detect cognitive and algorithmic bias, providing real-time feedback and correction—applicable across HR, healthcare, finance, and other domains.

This achievement highlights Woxsen University's leadership in ethical Al innovation and its commitment to solving real-world challenges through interdisciplinary research







Esteemed Members

AI Research Centre, Woxsen University

DR.RAUL VILLAMARIN RODRIGUEZ

VICE PRESIDENT AT WOXSEN UNIVERSITY

DR. HEMACHANDRAN K

DIRECTOR

DR. RAJESH KUMAR K V

CHIEF TECHNOLOGICAL SCIENTIST

DR. SHYAM JOSHI

CHIEF RESEARCH SCIENTIST

DR. PRANJALI GAJBHIYE

RESEARCH SCIENTIST

ASHOK RATNA PRAVEEN DOPPALAPUDI

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ASSISTANT PROFESSOR

DR. DEBAJYOTI BOSE

RESEARCH SCIENTIST

DR. RIYA BHATTACHARYA

RESEARCH SCIENTIST

DR. CHHAVI SHARMA

RESEARCH SCIENTIST

MR. SAI ADARSH MADDU

OUTREACH MANAGER

SHAIK ANJUMABI

INNOVATION AND COMMERICIALISATION







Our Vision

To become a globally recognized hub for pioneering Al research and innovation, driving transformative solutions that address real-world challenges and contribute to societal welfare.

Our Mission

To advance the field of artificial intelligence through cutting-edge research, interdisciplinary collaboration, and ethical development, fostering an environment that attracts top talent and cultivates partnerships with industry, academia, and government.

Global Footprint



About Us

Welcome to the AI Research Centre at Woxsen University, a renowned hub committed to pushing the boundaries of AI research and development. Situated in a vibrant academic setting, our facility is dedicated harnessing the revolutionary power of AI technologies to transform industries and improve social well-being. Our AI Research Centre boasts a team of professors, researchers. Executive Fellows, and students who are deeply involved in cutting-edge areas such as Machine Learning, Natural Language Processing, Computer Vision, Robotics, Blockchain, Cybersecurity, and the Metaverse. Our aim is to create innovative AI solutions that address practical issues, promoting advancement across various industries.

Contact

Us

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AI RESEARCH CENTRE

Our Projects

- Student Skill Enhancement (Meta + Gen Al) Game
- Metaverse Odyssey (SDG) VR
- Transcripts Verification System using Blockchain
- Woxsen Campus Mart
- Woxsen Campus Tour VR
- Mobile Bargaining System Using Al in Metaverse
- Iron Man Suit for Fire Detection
- Blockchain Stock Exchange
- Necrobotics
- Real time weather monitoring
- Healthcare management system

TRY DEMO

Core Pillars

- Research and Development Division
- Product Development Division
- Technical Documentation / Research Publication Division

Strategic Partners



MINISTRACTION WINDERSTANDS OF MORATUWA

Our Niche

- Artificial Intelligence and Machine Learning
- (Robotics Nocrobotic
- O JoT and Embedded Systems
- Virtual and Augmented Reality Metaverse
- Software and Web Development
- Quantum Computing
- Natural Language Processing /
- Biomedical Signal Processing
- Human Computer Interaction
- Blockchain and Web
- (Geospatial Information