



AI RESEARCH CENTRE

WOXSEN UNIVERSITY

ONE-YEAR ONLINE PG CERTIFICATE PROGRAM

**Applied Artificial Intelligence,
Data & Business Analytics**



This program prepares learners to become Applied AI and Analytics Professionals capable of:

- framing real business problems for AI,
- building and integrating ML / GenAI solutions,
- deploying AI systems responsibly in enterprise environments.

This is not a pure research AI program.

It is a deployment-oriented, industry-applied AI program.

Program Duration

1 Year | 2 Semesters | Fully Online

Eligibility

- Any UG degree recognized by UGC
- Final-year engineering students or working professionals
- No prior AI background required (bridge modules provided)

Fees

INR 75,000 – Indian Learners

USD 1,200 – International Learners

Capstone Project

Applied AI System Design, Deployment & Governance-Aware Implementation

(Analytics / ML / GenAI system with deployment and risk considerations)

Target Group

- Final-year engineering students entering analytics or AI roles
- Data analysts transitioning to AI and GenAI
- IT and consulting professionals moving into applied AI
- Entrepreneurs and managers implementing AI-driven systems
- Professionals working with AI automation and intelligent workflows

Career Outcomes

Graduates are prepared for roles such as:

- Applied AI Analyst
- GenAI Solutions Engineer (Entry-Level)
- AI Automation & Workflow Specialist
- Business & Data Analytics Professional
- AI Product or Solutions Associate

Skills Gained

- Python for analytics and AI systems
- Data preparation, feature engineering, and evaluation
- Machine learning and deep learning fundamentals
- Natural language processing and GenAI integration
- Prompt engineering and GenAI workflow design
- AI automation and agent-based systems
- Cloud-based AI deployment fundamentals
- AI problem framing and solution design
- Responsible AI foundations (mandatory)

Curriculum Structure

Semester I – Foundations & Problem Framing

- Python for Data, Analytics & AI (4 Credits)
- Mathematical & Statistical Foundations for Analytics (4 Credits)
- SQL for Data Science & Decision Systems (4 Credits)
- Business Analytics & Data Storytelling (4 Credits)
- Generative AI & Prompt Engineering Foundations (4 Credits)
- AI Problem Framing & Solution Design Lab (2 Credits)

Outcome:

Learners can translate business problems into AI-ready problem statements.

Semester II – Applied AI, Deployment & Automation

- Neural Networks & Deep Learning for Applied AI (4 Credits)
- Natural Language Processing & GenAI Systems (4 Credits)
- AI Automation & Intelligent Agent Systems (2 Credits)
- AI Deployment, Monitoring & Cost Governance on Cloud (4 Credits)
- Domain Elective (4 Credits)
 - Marketing / Finance / Healthcare / Supply Chain Analytics
- Capstone Project – Applied AI System (6 Credits)

Outcome:

Learners can build, deploy, and operationalize AI systems responsibly.

Capstone & Internship

Industry-Integrated Capstone

- End-to-end AI or analytics solution
- Includes:
 - problem framing
 - model selection
 - GenAI integration (where relevant)
 - deployment recommendation
 - risk and governance considerations

Internship Option

- Eligible graduates may opt for a 6-month to 1 year in-person internship with the AI Research Centre with a stipend of Rs. 15,000/- per month for the top 3 candidates.
- Focused on live AI, analytics, or GenAI projects
- Free Mentorship during the

Learning & Evaluation

- LMS-based self-paced modules
- Live expert sessions and review workshops
- Continuous assessment: 30%
- End-semester examination: 70%

Award & Credential Verification

Postgraduate Certificate

Issued by Woxsen University – AI Research Centre

All certificates issued under these programs are digitally recorded and verified using blockchain-based credentialing infrastructure, enabling:

- Secure, tamper-proof certification records
- Online credential verification from anywhere in the world
- Instant verification by employers, institutions, and partners
- Protection against credential fraud and misrepresentation

This ensures global credibility, long-term verifiability, and trust in the academic credentials issued by Woxsen University.

Facilitators:

Dr. Hemachandran K

Director – AI Research Centre | Vice Dean – School of Business

Program Lead : AI Agents, Prompt Engineering, NLP, Machine Learning and Responsible AI

Dr. Hemachandran K is the Director of the AI Research Centre and Vice Dean at Woxsen University, with over 15+ years of experience spanning AI research, industry projects, and global policy advisory. A UNESCO Expert, European Commission technology advisor, and AI Accelerator Institute Ambassador, his expertise includes NLP, Computer Vision, Generative AI, autonomous systems, and responsible AI governance. He has authored 25+ books, filed 80+ patents, and led large-scale AI deployments across healthcare, aviation, smart cities, and education.

Dr. Rajesh Kumar K V

Chief Technology Officer – AI Research Centre

Lead Faculty: Applied AI, Data Science, GenAI & AI Engineering

Dr. Rajesh Kumar K V is the Chief Technology Officer at the AI Research Centre with 12+ years of experience in AI product development, analytics, and enterprise transformation. A Certified Scrum Master and SAFe practitioner, he specializes in LLM-powered systems, agentic AI, analytics platforms, and MLOps-oriented deployments. He has worked across healthcare, defense, sports analytics, and digital transformation projects, bridging research with scalable enterprise AI solutions.

Dr. Shyam Joshi

Research Scientist – AI Research Centre

Lead Faculty: Deep Learning, AI Systems, Robotics & Multi-Agent Systems

Dr. Shyam Joshi holds a PhD from IIT Delhi and is a former Postdoctoral Researcher at Scuola Superiore Meridionale, Naples. His research spans deep learning, pattern recognition, computational neuroscience, synchronization theory, robotics, and multi-agent systems. He has held research roles at IIT Jodhpur and national innovation hubs, and is an inventor on multiple AI and robotics patents, including necrobotics-based systems and intelligent monitoring solutions.

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