



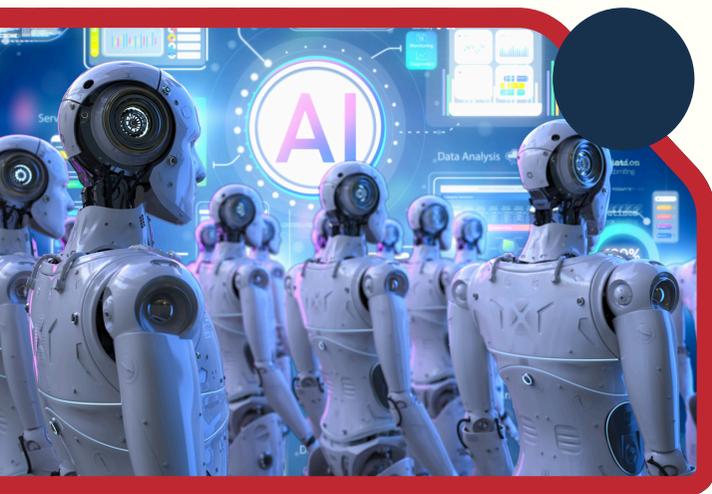
**Pantech
Solutions
India Pvt Ltd.**

Organised by

**Department Of CSE (AI & ML),
Vidya Jyothi Institute Of Technology,
Hyderabad**

Date & Time

**6th – 10th Oct 2025
6 PM To 8 PM**



CHIEF PATRONS:

Dr. P. Rajeshwar Reddy,
Secretary & Correspondent, VJES

Mrs. S. Neelima
Joint Secretary, VJES

PATRON:

Dr. A. Srjana, Principal

CONVENER:

Dr.N.Anusha, Head-CSE(AI&ML)
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CO-ORDINATOR:

Dr.B.Nanditha, Assistant Professor
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REGISTRATION

- Registration Fee: Rs. 249 /-
- E – Certificate will be provided
- Sessions will be through ZOOM
- Attendance is mandatory for all the sessions

SCAN HERE FOR REGISTRATION



VIDYA JYOTHI
INSTITUTE OF TECHNOLOGY
AN AUTONOMOUS INSTITUTION

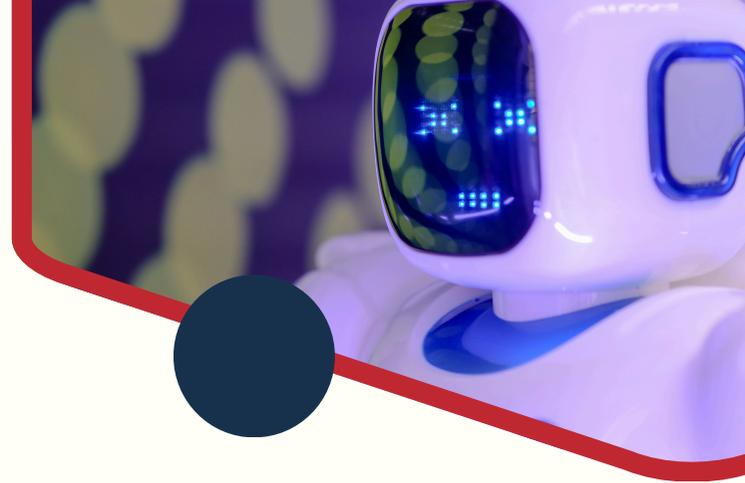
**Department Of CSE (AI & ML),
in association with
Pantech Solutions India Pvt. Ltd.**

Presents

**ONE WEEK ONLINE HANDS-ON
FACULTY DEVELOPMENT PROGRAM
ON**

**AGENTIC AI: BUILDING
INTELLIGENT, ACTION-TAKING
AI SYSTEMS**





ABOUT PANTECH:

Pantech Solutions is a leading R & D Company also providing Training on the latest domains with over two decades of expertise in empowering institutions, faculty, and students through innovative learning solutions. Headquartered in Chennai and Hyderabad, Pantech have partnered with more than 700+ colleges and universities across India, delivering 3500+ successful Faculty Development Programs, Workshops, Internships, and Value-Added Courses. With our tagline “Digital Learning Simplified”, we focus on bridging the gap between academia and industry by offering training in cutting-edge domains such as Artificial Intelligence, Machine Learning, IoT, Embedded Systems, VLSI, Electric Vehicles, Cyber Security, Data Science, and Cloud Computing. Our programs emphasize hands-on training, real-time project implementation, and industry-recognized certification to enhance employability and academic excellence. Backed by a strong R&D team, we continuously update our content to stay aligned with evolving industry demands. Through customized training modules, project guidance, and knowledge-sharing initiatives, Pantech Solutions has become a trusted partner in fostering innovation, skill development, and professional growth for both students and faculty.

AGENDA

FOUNDATIONS OF AGENTIC AI

- What makes an AI “agentic”: autonomy, reasoning, acting.
- Agent types: Reactive, Goal-Based, Utility, Learning.
- Key components: Thoughts → Actions → Observations loop.
- Role of Large Language Models (LLMs) as the “brain.”
- Mini-Project – “Hello Agent” Create a Python script using OpenAI or Hugging Face API

PROMPTING & REACT PATTERN

- Prompt engineering for agents: roles, constraints, context.
- Reasoning + Acting (ReAct) pattern to separate planning from action.
- Mini-Project – “ReAct Quiz Agent” Build a LangChain Agent

FRAMEWORKS & TOOL INTEGRATION

- Overview of popular frameworks: LangChain, LlamaIndex, OpenAI Functions.
- Memory & Context: maintaining conversation state.
- Tool calling & API integration.
- Mini-Project – “Weather & Facts Agent”

KNOWLEDGE RETRIEVAL & MULTI-AGENT IDEAS

- Retrieval-Augmented Generation (RAG) for private or real-time data.
- Basics of multi-agent collaboration and message passing.
- Safety & trust: bias mitigation, reversibility.
- Mini-Project – “PDF Knowledge Agent”

DEPLOYMENT & CAPSTONE

- Quick deployment options: Streamlit/Gradio, Hugging Face Spaces.
- Monitoring, error handling, cost optimization.
- Responsible AI: privacy, compliance, and ethics.
- Mini-Project – “Department FAQ Agent” (Capstone)



ABOUT VJIT:

Vidya Jyothi Institute of Technology (VJIT) was established in 1998 to foster the scientific temper in promoting the world class professional and technical expertise. VJIT was approved by AICTE, permanently Affiliated to JNTUH, granted autonomy by UGC and accredited by NAAC with A+. VJIT is truly a comprehensive institution, offering a variety of undergraduate and postgraduate programs across multiple disciplines. All eligible B.Tech programs are accredited by NBA under Tier-1. VJIT proud to have NIRF-2025 Rank Band 201-300 under Engineering Category. Institute has received research grants worth 175 lakhs from DST, AICTE, MSME and MHRD IIC. The 55+ functional MoU's with reputed industries and academic institutions enhance student's real-world exposure and industry readiness.

ABOUT THE DEPARTMENT CSE (AI & ML)

The Computer Science and Engineering (Artificial Intelligence & Machine Learning) Department was started in 2022 with 60 students, and the number has now grown to 180. The department offers a comprehensive program in Artificial Intelligence & Machine Learning (AI&ML), seamlessly guiding students from foundational principles to advanced neural network applications. The curriculum effectively combines theoretical knowledge with practical experience, preparing students for both traditional machine learning and advanced technologies. In fostering self-driven learning, the department establishes Technical Clubs to augment student knowledge. With a focus on research and a hands-on learning approach, a cadre of expert faculty has cemented the department's reputation as a premier destination for AI&ML education.

