![Lendi Institute of Engineering & Technology logo]

Institute of Engineering & Technology

AN AUTONOMOUS INSTITUTION

Accredited by NAAC with "A" Grade, Accredited by NBA(ECE,CSE,EEE & MECH)
Approved by A.I.C.T.E & Permanently Affiliated to J.N.T.U Gurajada, Vizianagaram.
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Department of CSE(AI and Machine Learning)
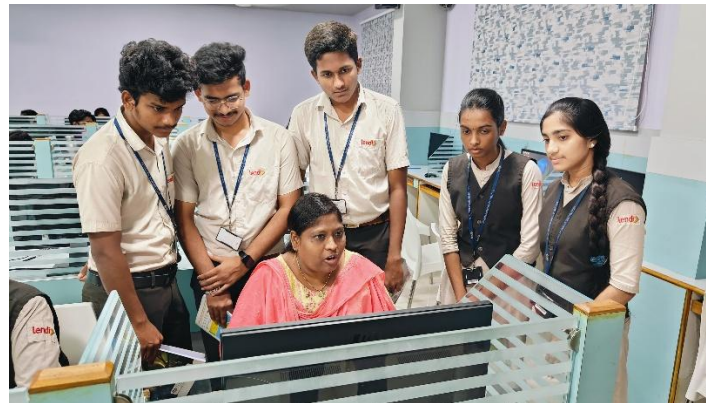
INNOVATION

Academic Year: 2024-25

Quick intro

CSE (AIML) department always blend cutting-edge AI/ML research, hands-on applied labs, industry partnerships, entrepreneurship support, ethical/societal awareness, and strong pedagogy.

Below are practical innovations (technical, curricular, organizational, and outreach) tailored for our newly established department that wants to be visible, productive, and sustainable.

Infrastructure & labs

- **John Mc Carthy Lab** — GPU for fine-tuning and inference, and tools for model-card documentation and safety checks. Microcontrollers (Raspberry Pi, TensorFlow Lite), sensor kits, and an embedded-ML workstation for IoT projects. Experiment tracking (MLflow/Weights & Biases).

Curriculum & pedagogy innovations

- **Project-first "Design Thinking and Innovation"** where 60–70% of marks come from team projects evaluated for Innovation.

- **Interdisciplinary Minors**: AI for Healthcare, AI for Agriculture, AI for Smart Cities (collaboration with other departments).

- **Honors** For being more productive included 4 Categories likewise AI, Cyber Security, Networks and Web Frameworks

Student engagement & ecosystem

- **ACM Student Chapter** : memberships, mentorship, Events and Programs

- **Industry Mentorship Board**: via CCC and Eduskills Platforms

- **ASTRA 1**.0 Dept Level Technical Fest

Industry & academic partnerships

- **MOUs with Brainmage** for Internships

Teaching & assessment innovations

- **Competency-based evaluation**: assessments mapped to specific skills

- **Peer code reviews & reproducibility checks** as part of grading.

Entrepreneurship & spinouts

- **IIC and EDC Cell**: Yukta, Kapila and Schemes Encouragement
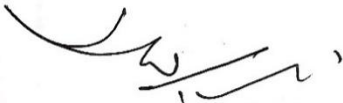

Measurable KPIs

- Number of student projects deployed / used externally.

- Internships

- Participation in competitions / hackathons and placement in top ranks.

Concrete project ideas students can start now

S.No.	Title of the Project	Project Classified as
1	Smart Surveillance	Prototypes of Product based projects
2	Helping Hands: Donation of Food through Multimedia Mobile Application	Application or industry-driven projects
3	Any Trade App	Application or industry-driven projects
4	Auto Outpass AI	Application or industry-driven projects
5	JustifyAi	Application or industry-driven projects
6	Career Craft	Prototypes of Product based projects
7	Accident Alert System	Research-focused projects
8	Secure Stream	Research-focused projects
9	Foodlink	Research-focused projects
10	Renzo	Application or industry-driven projects

Suggested course & lab titles (drop-in for syllabus/approval)

- MLOps and Model Deployment

- TinyML & Edge AI (lab)

- Ethics, Law & Governance of AI (seminars + case studies)

Head of the Department
Dept. of CSE (AI & Machine Learning)
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HOD CSM