

Ekaansh Jain

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science and Engineering (IoT Specialization) — CGPA: 8.52/10

Vellore, India

2023 – Present

EXPERIENCE

Apsidata Solutions

AI/ML Intern

Noida, India

Jun 2026 - Jul 2026

- Built a Python proof-of-concept evaluating LLM APIs to automate manual open-ended survey-response coding for market-research workflows.
- Engineered few-shot prompt structures to classify unstructured survey verbatims into operational domains, tuning instructions to handle industry-specific jargon.
- Benchmarked outputs against 1,500 human-coded entries, achieving 87% accuracy and establishing a baseline for internal automation.

PROJECTS

Multi-Agent UTM Drone Conflict-Resolution System | *LangGraph, Python, LLM*

Jul 2026

- Architected a multi-agent LangGraph system where LLM agents assess drone flexibility to guide a cost-minimizing arbitrator, achieving 100% collision-free resolution across 145+ scenarios.
- Engineered a simulation-based verification layer to validate trajectories for collision safety and fairness, triggering automated re-planning with human-in-the-loop fallback.
- Benchmarked the core arbitration engine at 50 drones (~600 conflicts), resolving all conflicts algorithmically in under 0.65s, independent of LLM negotiation latency.

Uncertainty-Aware P2P Energy Trading | *SAC, CQR, CNN-LSTM, PyTorch*

Feb 2026

- Trained a microgrid energy trading model that reduced grid dependency by 51.4% against rule-based baselines across 14 Pecan Street households.
- Designed a peer-to-peer microgrid trading framework combining CNN-LSTM load forecasting with Conformal Quantile Regression to produce statistically valid 90% coverage prediction intervals.
- Developed a Soft Actor-Critic RL agent with CQR interval width injected into the reward function as a dynamic risk penalty, making the agent conservative under forecast uncertainty.

Grant Evaluator AI | *LangChain, RAG, Python, FastAPI*

Sep 2025

- Built an automated grant-screening pipeline that evaluated 50+ proposals, cutting manual review time by 85%.
- Orchestrated a LangChain multi-agent pipeline for parallel budget analysis, scoring, and decision-making.
- Deployed an asynchronous FastAPI backend to manage concurrent agent execution, stream live evaluation progress, and generate structured PDF audits.

ACHIEVEMENTS

- **1st Place, Samsung PRISM Gen AI Hackathon 2025:** Developed Climb the Corporate Ladder, a 3D Unity soft-skills simulation using Gemini-driven LangGraph agents to dynamically alter NPC dialogue based on vocal and non-verbal user cues like posture.
- **1st Place, INNOAI Hackathon 2026:** Engineered UrbanWatch, an investment scoring system combining a Siamese Swin-SAM-CD change-detection pipeline on Sentinel-2 satellite imagery with an automated RERA regulatory document parser along with real time news.
- **3rd Place, Societe Generale iHackMyPlace Hackathon 2026:** built Nexus AML, an investigation agent that tests suspicious vs. legitimate explanations for flagged accounts instead of scoring alerts, achieving ~5x lower false positives with fully evidence-grounded verdicts.

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL
- **AI & Agentic Workflows:** LangChain, LangGraph, Multi-Agent Systems, RAG, LLMs, BERT, Hugging Face
- **Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-learn, Deep Learning, Reinforcement Learning
- **Backend & Tools:** GitHub, FastAPI