Adith N Reganti

adithreganti@gmail.com +91-8618275578 LinkedIn GitHub

Education

•Indian Institute of Information Technology, Allahabad *Aug 2024 – May 2028 (Expected)*
B.Tech in Information Technology **CGPA: 9.35**

Research & Publications

- **Lost in Translation? A Comparative Study on the Cross-Lingual Transfer of Composite Harms**
  AAAI-26 AICS Workshop — Accepted - Link
  Conducted empirical evaluation of multilingual LLM safety, analyzing cross-lingual transfer, alignment degradation, and composite harm benchmarks across six Indic languages. Collaborative work with **Google Germany** and IIIT Allahabad.
- **Ongoing Research: Agentic AI in Financial Services**
  Developing an agentic LLM pipeline that integrates quantitative financial metrics, sector-level insights, and explainability modules for retail investor analysis, in collaboration with **ETH Zürich**.

Academic Collaboration and Mentorship

- **GeekHaven AI/ML – Research Member** *Sep 2025 – Present*
  Established a comprehensive testing and validation pipeline for LLMs, reducing model errors by 15% and ensuring the reliability and trustworthiness of AI-powered applications.
- Mentored students from Manipal University through a faculty collaboration in contributing analyses and experiments for our ongoing research papers.

Personal Projects

•PlantScan – AI-powered Agricultural Assistant
– Built with **FastAPI**, **React**, and **Gemini Vision** for plant disease detection.
– Added modules for mandi-price retrieval and government scheme summarization.
– Enabled offline fallback and async backend handling 500+ test queries/day.

•FinanceChatBot
– Developed with **LangGraph** + **FastAPI** for interpretable stock insights.
– Integrated FinBERT sentiment, sector benchmarks, and Groq tool-calling.
– Designed scoring pipeline for profitability, growth, valuation, and cash flow.

•Capture – CAPTCHA Text Recognition
– Built a CNN-based OCR system for noisy CAPTCHA text.
– Flask backend achieved sub-200ms inference; React UI supported live uploads.
– Trained using heavy augmentation (noise, rotation, distortion).

•InboxSpend – Email-based Money Tracker
– Parsed bank emails (Python IMAP) to extract merchants, amounts, and balances.
– Developed secure backend + **React** dashboard for spend analytics.
– Added fuzzy matching (RapidFuzz) and early LLM-based financial insights.

•AirWriting – Math Expression Solver
– Used **MediaPipe** for fingertip tracking and CNNs for symbol recognition.
– Implemented parsing logic for multi-digit sequences and operators.
– Exploring CRNN and SymPy integration for real-time evaluation.

Skills

Languages: Python, C++, C, JavaScript, TypeScript, HTML, CSS,Java

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, FastAPI, Flask TensorFlow, Keras, OpenCV,Socket.IO

Databases: MongoDB, PostgreSQL, MySQL

ML & DL: Regression, Classification, CNNs, MLPs,Prompt Engineering, RAG

Developer Tools: Git, GitHub, Docker, Postman, VSCode,

Generative AI and agentic tools: Langchain,Langraph,HugginFace Transformers,FAISS,VectorDBs,Groq,OpenAI API

Achievements

- Solved **400+ LeetCode** problems (adith_regan); strong grasp of algorithms and DSA (Rating: 1700).
- **Top 20 finalist** at **Educathon 2.0** (national-level hackathon) among **300+ teams**.
- Built **10+ ML + Web integrated projects** spanning agriculture, finance, OCR, and automation.
- Strong backend + ML integration experience; contributed to **agentic GenAI pipelines**.