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EDUCATION

JNTU Hyderabad

Dec 2021-Jul 2025

Bachelor's degree in CSE (Artificial Intelligence & Machine Learning).

CGPA: 7.2/10

Relevant Coursework: Databases, Operating Systems, Machine Learning, Deep Learning, Reinforcement Learning, Artificial Intelligence

SKILLS

Core Tech: Python, Data Structure & Algorithms, Mathematical modeling, Model Fine tuning, Prompt Optimization.

Artificial Intelligence: Machine Learning, Large Language Model (LLMs), Agentic AI, Retrieval Augmented Generation (RAG), Model Context Protocol (MCP), Multi-Agent orchestration, Vector Databases, Reinforcement Learning from Human Feedback (RLHF).

Frameworks: LangChain, LangGraph, CrewAI, Tensorflow, FastAPI, Scikit-Learn, Matplotlib, Pandas

Soft Skills: Leadership, Research Communication, Cross-functional Collaboration, Ethical analysis.

PUBLICATIONS

MCP-AI: Multi-Agent Control Platform for Autonomous Crop Management Using IoT Sensors and AI Agents

Primary Investigator | Published in ICMDRI 2025 (Page 317).

- Investigated the orchestration of autonomous agents in resource-constrained environments (IoT) to solve complex allocation problems.
- Architected a novel multi-agent architecture that integrates sensor networks with AI-driven decision-making, achieving a 40% reduction in manual intervention through autonomous logic using techniques like RAG and HITL.

Phish Catcher: Client-Side Defence Against Web Spoofing Attacks Using Machine Learning

Lead Author | Published in ICMDRI 2025 (Page 325).

- Explored robustness in machine learning models against web spoofing and social engineering attacks.
- Developed a specialized detection system utilizing lexical and behavioral feature extraction pipelines, achieving a 30% performance improvement over standard heuristic detectors.

PROJECTS

Multi-Agent Control Platform for Precision Agriculture

[Github link](#)

- Developed a domain-specific multi-agent system to minimize hallucinations in high-stakes agricultural decision-making.
- Integrated a Human-in-the-Loop (HITL) feedback mechanism to validate critical resource allocation commands, serving as a proxy for RLHF to iteratively refine agent steerability.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline to ground agent responses in verified external weather/soil data, reducing factual errors by 40%.
- **Tech Stack:** Python, LangGraph, Multi-Agent Orchestration, MCP, LLMs, FastAPI, RAG and HITL techniques

AI Task Manager

[Github link](#)

- Engineered a robust Data Curation Pipeline to ensure consistent, high-fidelity context flow between user inputs and LLM outputs.
- Utilized Chain-of-Thought (CoT) reasoning to improve intent classification accuracy by 15%, specifically targeting ambiguous voice commands to reduce model misinterpretation.
- Created a reliable evaluation dataset from real-world voice interactions to benchmark model performance against user intent.
- **Tech Stack:** Python, Data Curation, Prompt Engineering (CoT), NLP pipelines, Context Management, Orchestrator-Worker LLM workflow.

ACHIEVEMENTS

- **Competitive programming**- Ranked Top 2% globally on LeetCode (Rating: 2040+), excelling in Advanced Data Structures, Algorithms, and System Optimization.
- **Ranked 1st out of 200+** contestants in Inter-college level Code Debugging competition.
- **3X AIML Hackathon Winner**- Architected and deployed award-winning Generative AI and Data Science prototypes, translating theoretical models into functional and solving real-world business problems.
- **Leadership** : Captained college kabaddi team to 4+ championships, fostering a culture of **collaboration, strategy, and resilience**.