

ADITYA HEDE

<https://www.linkedin.com/in/aditya-hede-1971211aa/> | adithyahede7@gmail.com | 6025615580 | Tempe, AZ

Summary

Graduate student in Information Technology with focus on machine learning, multi-agent systems, and AI workflows. Hands-on with RAG pipelines, LLM fine-tuning, and AI agent frameworks (LangChain, LangGraph). Experienced in backend systems, containerization, and collaborative development using Git and CI/CD.

Education

Master of Science, Information Technology – Arizona State University, Tempe, AZ (GPA: 3.78) — May 2025

Relevant Coursework: Machine Learning, NLP, Database Systems, Distributed Systems, Operating Systems

Bachelor of Engineering, Computer Science – VJIT, Hyderabad, India (GPA: 3.33) — July 2021

Skills

- **Programming:** Python, Java, JavaScript, C/C++, SQL, TypeScript
- **ML & Data:** AI Agents, Agentic AI, RAG, LLM Fine-Tuning, LangChain, LangGraph, TensorFlow, PyTorch, Deep Learning, Machine Learning Pipelines
- **Infra & DevOps:** Linux, Docker, Kubernetes, PostgreSQL, PrismaJS, Git, CI/CD (GitHub Actions)

Work History

Assistant System Engineer

TCS, Hyderabad, India

December 2021 – April 2023

- Built backend workflows for SAP CLM systems used by 200+ clients.
- Automated Python data pipelines, cutting batch job time by 20%.
- Applied TDD in release cycles and debugging to reduce production issues.

Projects

InboxBridge Backend – Node.js, PostgreSQL, Docker, Kubernetes

- Built backend API to classify and route enterprise messages, reducing manual workload by 30%.
- Designed scalable deployments using Docker + Kubernetes with automated CI/CD.
- Implemented TDD with Jest for reliability.

AI Water Usage Estimator – Python, Streamlit, OpenAI API, AWS

- Built AI-powered estimator for resource consumption of ML queries.
- Integrated AWS S3 for data pipelines and GitHub Actions for CI/CD.
- Applied RAG-style data ingestion and LLM integration for real-time analysis.

AI Workflow Automation – Python, Go, Slack API, Microsoft 365

- Designed multi-agent style automation across Slack + Microsoft 365 to coordinate tasks.
- Reduced manual updates by 25% through autonomous task assignment and notifications.