

## ADITYA HEDE

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### 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.

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### 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**

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### 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)

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### 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.

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### 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.