Adithyan K

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EDUCATION

Manipal Institute of Technology   Bengaluru, India
*B.Tech in Computer Science and Engineering - **CGPA: 8.36***   *Sep. 2022 – present*

EXPERIENCE

Co-Founder & Lead AI Product Developer   August 2025 – Present
Lifie.AI   *Remote*
- Building the core AI infrastructure for **Lifie** — an autonomous commerce platform with products such as Lifie Agents and Lifie Hub.
- Designed and implemented the complete LLM layer encompassing tool orchestration, context management, retrieval grounding, and guardrail systems for reliable agent behavior.
- Developed the **Lifie MCP server** to enable discovery and interoperability of A2A (Agent-to-Agent) agents across the ecosystem.
- Leading end-to-end AI system architecture — from model routing and retrieval grounding to production-grade agent orchestration and evaluation frameworks.

AI Product Development Intern   June 2025 – July 2025
QpiAI   *Bengaluru, India*
- Developed internal tools and PoC use cases on QpiAI's Agent Hive platform, focused on agent-based automation for lead intelligence and outreach.
- Delivered a complete sales support agent used internally, resulting in measurable improvements in research efficiency and outreach personalization.
- Built user-friendly interfaces and supported deployment of agent workflows.
- Integrated state-of-the-art LLM APIs and internal SLMs to enable dynamic enrichment, scoring, and content generation.

PROJECTS

Metafog.io – Decentralized AI Search Platform | *NextJS, Docker, Nginx, Ollama, LlamaIndex*   Live Link
- Built a decentralized search platform combining real-time web crawling and LLM-based summarization.
- Designed and implemented the entire stack — frontend, backend, and provider infrastructure with scalable Docker and Nginx architecture.
- Developed a fast, resilient API for search and summarization across distributed nodes.

ArXiv RAG System | *LangChain, Qdrant, Docling, Unsloth, Hugging Face, Docker, Python*   GitHub
- Built a LangChain + Qdrant RAG pipeline enabling semantic search and contextual Q&A over ArXiv papers.
- Automated PDF ingestion and content extraction using Docling for research paper parsing.
- Fine-tuned Qwen 8B & 14B models with Unsloth + QLoRA for domain-specific, high-quality responses.
- Containerized and deployed with Docker Compose for seamless orchestration of vector DB and inference services.

BiasBalance | *Python, Pydantic, Streamlit, OpenAI API, Docker, GitHub Actions*   Live Link
- Built a Streamlit-based web application to detect dataset bias and augment data, utilizing statistical tests and OpenAI API for intelligent augmentation
- Created an intuitive interface with interactive visualizations to analyze bias and variable independence in datasets.
- Automated CI/CD pipeline by integrating GitHub Actions to build Docker images and push them to Docker Hub.
- Integrated CSV export functionality for augmented datasets, simplifying data accessibility for end users.

SKILLS

Languages: C, Python, JavaScript, HTML, CSS, Java, SQL

Frameworks: React, Next.js, Express.js, Node.js, Zustand, Drizzle ORM, LangChain, AutoGen, Mastra, Streamlit

Databases: PostgreSQL, MongoDB

Developer Tools: Git, Docker, Docker Compose, Google Cloud Platform, Vercel, Vite