Anurag J

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Education

Jain University, Bengaluru – MCA - Storage & Cloud Technology   Aug 2023 – Jun 2025
- CGPA: 7.74

Experience

Software Engineer Trainee, IQVIA – Bengaluru   July 2025 – Jan 2026
- Built an autonomous GenAI agent with dynamic fallback to web search when internal knowledge was insufficient.
- Designed a Human-in-the-Loop (HITL) reactive agent using structured prompts and control logic for safe automation.
- Developed an end-to-end RAG pipeline using hybrid semantic + keyword search achieving 97%+ precision and recall.
- Implemented vector search and hybrid retrieval using embeddings and ranking to improve answer accuracy.
- Optimized LLM workflows using execution tracing and quality scoring for continuous reliability improvements.

Python Developer Intern, Innovate Intern   Aug 2024 – Oct 2024
- Engineered and optimized Python applications, boosting system performance by 20% and ensuring scalability.
- Coordinated with cross-functional teams to deploy new features, cutting project delivery time by 15%.
- Built REST APIs and integrated third-party services, improving data processing efficiency by 30%.
- Strengthened backend functionality to enhance user interactions and system reliability.

Projects

GenAI Dynamic RAG Platform | React, FastAPI, LangChain, Tailwind CSS, SQLite   Link
- Developed a full-stack AI research assistant combining a React frontend with a FastAPI backend for intelligent research and question answering.
- Built an agentic ReAct-powered workflow for reasoning over user queries and aggregating responses from live web search and indexed knowledge.
- Implemented secure auth, chat interface, and document RAG with support for context upload and navigation.
- Integrated AI inference via Groq and HuggingFace embeddings to ground answers and facilitate modular vector retrieval.

Deep Research Agent | Python, LangGraph, LangChain, FAISS, Tavily   Link
- Built an advanced autonomous research agent that performs deep web research, synthesizes findings, and generates professional reports.
- Designed a state-machine workflow using LangGraph to manage the full research lifecycle from intent parsing to delivery.
- Orchestrated ReAct-based web scraping and RAG with FAISS vector store for evidence-grounded responses.
- Enabled multi-format report generation (PDF, PPTX, DOCX) and automated delivery via email.

Technologies

Languages: Python, SQL, JavaScript

Frameworks & Libraries: ReactJS, NodeJS, FastAPI, LangChain, LangGraph, Pandas, NumPy, scikit-learn, Matplotlib

Cloud & Databases: AWS (S3, EC2, Athena), SQLite, MySQL, PostgreSQL, MongoDB, FAISS, Vector Databases

Tools: Git, Docker, Kubernetes, VS Code, Power BI, Tableau

Publications & Patents

Review of AI-driven Cloud Optimization   Published
International Journal of Scientific Research in Engineering and Management

Community-Based Chat Web App   Awaiting Examination
Patent Application No. 202441092683