

# 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 (HITAL) 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