

# Gourisankar G

 Github |  LinkedIn |  Myportfolio |  Email |  Phone

## PROFESSIONAL EXPERIENCE

---

*Deloitte USI – Gen AI Developer* *Hyderabad, India — 2024 – Present*

- Designed and deployed an enterprise-grade RAG-based resume search system using LangChain, OpenAI's GPT-4, and AWS cloud services.
- Developed a modular FastAPI backend, integrating with Ollama initially and later upgraded to LangChain-powered GPT-4 for more robust LLM responses.
- Reduced LLM response latency and improved retrieval accuracy by optimizing prompt templates and refining retrieval queries for context-aware search.
- Deployed the solution on AWS using S3 (storage), OpenSearch (vector similarity search), and IAM (secure authentication and access control).
- Built intelligent ingestion logic to embed only new resumes not already indexed in OpenSearch, saving compute and storage overhead.
- Migrated backend database support from SQLite to SQL Server and refactored API logic to enable seamless CRUD operations.
- Validated all API endpoints using Postman and implemented robust error handling and input validation for production readiness.
- Created and maintained Python automation scripts for internal tools and data profiling tasks.
- Contributed to data transformation pipelines in Azure Databricks by converting XML/JSON to Parquet/Delta and performing schema-based validations.
- Conducted knowledge transfer sessions and architectural walkthroughs on LangChain RAG components within the team.

## TECHNICAL SKILLS

---

|                       |  |
|-----------------------|--|
| Languages             | Python, SQL  |
| Frameworks            | LangChain, FastAPI   |
| Libraries             | Hugging Face Transformers, Pandas  |
| Large Language Models | GPT-4 (OpenAI), Ollama   |
| ML/NLP                | Retrieval-Augmented Generation (RAG), Prompt Engineering, Embedding Models |
| Cloud                 | AWS (S3, IAM, OpenSearch)  |
| Databases             | SQL Server, SQLite   |
| Tools                 | Postman, Git, VS Code  |

## EDUCATION

---

2020 - 2023    BCA at **Santhigiri College of Computer Sciences** (GPA: 7.92/10)  
2025 - 2027    MCA-Data Science at **Jain (Deemed-to-be University)**

## PROJECTS

---

### Go Mech

[GitHub Link](#)

It is a mobile application developed on the Ionic Framework that helps users find nearby mechanic shops (if registered) to access mechanic services for their vehicles.

### OP Booking System

[GitHub Link](#)

The OP Booking System is an exclusive website developed for a single hospital, offering streamlined online appointments and efficient access to doctors. This tailored solution is designed to optimize communication and reduce administrative burdens within the hospital environment.

## CERTIFICATIONS

---

Databricks Certified Data Engineer Professional ([verify credential](#)) Jan 2025

Databricks Certified Data Engineer Associate ([verify credential](#)) Dec 2024

## PUBLICATIONS

---

Gourisankar G, Gayathri Manjesh and Sebastian Cyriac (Mar. 2023). "Internet of Things in Road Safety". In: *International Conference on Advanced Computing and Communication Technology-2023*. Vol. 8. 3. IJSDR, p. 1332. URL: <https://www.ijssdr.org/papers/IJSDR2303219.pdf>.