Rokesh Sankar

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Summary

AI Engineer with 2+ years building production-grade NLP/LLM systems, including RAG pipelines and agent-based architectures (LangGraph, LangChain). **MSc in Artificial Intelligence (Distinction**), Queen Mary University of London. Full right to work in the UK.

Technologies/ Skills

Languages: Python, JavaScript/TypeScript, C++, SQL
AI/ML: RAG, LLM Fine-Tuning, Embedding Models, LangGraph, LangChain, LangSmith, PyTorch, MCP, Pandas
Cloud & MLOps: AWS, Azure, GCP, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), REST APIs, MLOps
Soft Skills: Collaboration, Communication, Problem-solving, Agile teams

Work Experience

AI Engineer (Contributor) | Open-Source Projects November 2025 – Present

- Collaborated with a distributed contributor base via GitHub — code review, issue triage, feature proposals

Member & Technical Collaborator| Queen Mary Machine Learning Society. September 2024 – October 2025

- Collaborated with a peer group of ML practitioners on applied machine learning projects using Python.

Programmer Analyst | Cognizant Technology Solutions August 2023 – August 2024

- Designed and developed an **AI maturity model** framework for **30+ clients**, focusing on scalability, governance, and performance
- Developed Automated **Python** based build and test automation for an AI-based enterprise platform, cutting manual tasks by **25%**
- Part of **AI Squad**, focusing on strategic initiatives in **Testing in AI** and **AI in Testing**

Programmer Analyst Trainee | Cognizant Technology Solutions August 2022 – July 2023

- Developed and tested Python modules for **2+ AI-first applications**, focusing on code quality, scalability, and performance
- Built a scalable, secure AWS-based **Metadata Ingestion Framework** for a **BFS** client using Python
- Executed source-to-target mapping and streamlined data integration processes

Student Intern | Cognizant Technology Solutions February 2022 – July 2022

- Engineered **ETL pipelines** to process hospital admissions data using Azure Data Factory and Databricks
- Optimized data pipelines to ensure efficient processing and accuracy of healthcare data
- Enabled the integration of admissions data into **Azure Data Lake** to support analytics and reporting

Projects

Detection of Machine-Generated Text under Paraphrasing and Mixed Authorship

- Fine-tuned RoBERTa and DeBERTa-v3 models to detect AI-written text and author boundaries, achieving **84% accuracy** and 0.86 F1, reducing MAE by 74% through contextual optimization.

Legal Search Engine using Information Retrieval

- Engineered an information retrieval system for 10k+ legal documents, implementing **advanced retrieval mechanisms** (TF-IDF, BM25) analogous to RAG workflows to improve search precision by 22%.

Education

MSc in Artificial Intelligence | Queen Mary University of London | Grade: **Distinction** September 2024 – September 2025

- **Modules:** Machine Learning, Applied Statistics, Natural Language Processing, Neural Networks and Deep Learning, Information Retrieval**,** Ethics, Regulation and Law in Advanced Digital Information Processing
- **Dissertation:** Paraphrase-Resistant Detection of Machine-Generated Text

Bachelor of Engineering | Anna University May 2018 – May 2022

- **Modules:** Python, Java, Data Structures and Algorithms, Computer Networks, Cloud Computing
- **CGPA:** 8.3/10 (First-Class with no backlog history)

Achievements/ Certifications

- Top 10 Teams in AI Engine UK University Hackathon at University College London (UCL)
- Smart India Hackathons – Top 5 Teams in the University to design a Mobile app for police to manage crime records
- Indian Automation Games (IAG) - Represented Indian Society of Automation south zone in IAG-2020
- Certifications: Azure AI Engineer Associate, Google Cloud Professional Machine Learning Engineer
- Languages: English (Professional Proficiency), German (Basic), Tamil, Hindi