

# Lakshmi Shravya Ramaraju

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Software Engineer specializing in LLM applications and AI-powered solutions, with hands-on experience building RAG systems and conversational AI using LangChain, OpenAI, and vector databases. Delivered GenAI chatbots and data platform tools for Fortune 500 clients across technology and financial sectors. Strong cloud development background (Azure, GCP) with proven ability to rapidly learn new technologies and contribute to cross-functional engineering teams.

## TECHNICAL SKILLS

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**AI/ML:** LangChain, OpenAI API, RAG, prompt engineering, vector databases, TensorFlow, Azure ML, Vertex AI, MLOps (CI/CD, model versioning, experiment tracking)

**Cloud:** Azure (ML, Computer Vision, Functions), GCP (Vertex AI), AWS (Cloud Practitioner - in progress), Docker, GitHub Actions, Linux

**Programming:** Python (Advanced), SQL (Advanced), JavaScript (Intermediate), Java

**Data Engineering:** Apache Spark, Hadoop, Oracle, MongoDB, NoSQL, ETL pipelines

**Tools:** Git/GitHub, Tableau, Alation SDK, MCP, Excel

## EXPERIENCE

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### Software Engineer – Data Platform

Sept 2024 - Present

#### Worldpay

- Engineered database DevOps automation pipelines using Python, Oracle, Linux, and GitHub Actions to optimize data infrastructure for the Worldpay Acquiring Platform, reducing deployment time through CI/CD workflows serving enterprise-scale payment processing across development, architecture, and infrastructure domains.
- Architected and deployed AI-powered data catalog chatbot POC using LangChain, MCP architecture, and internal GenAI models integrated with Alation SDK, enabling natural language querying of data assets to improve data discovery efficiency for cross-functional engineering teams
- Led hackathon team to 2nd place finish across 10+ UK teams, competing on innovative AI solutions for business impact across the company.
- Served as GitHub Copilot champion, driving AI-assisted development adoption and best practices across the organization.

### AI Engineer

Jan 2024 - May 2024

#### Bulbshare

- Developed company's first AI-powered chatbot using Python-based RAG models and OpenAI to analyse brand engagement for Fortune 500 clients across technology, consumer goods, and telecommunications sectors.
- Built end-to-end personalised AI agent application in company hackathon, creating conversational interfaces that synthesize customer community data to deliver actionable product usage insights.
- Contributed to internal training programs on prompt engineering and effective use of generative AI tools across the organization.

## **Software Engineer Intern**

**June 2021 – Sept 2021**

### **ATOS**

- Collaborated with ATOS' Greece-based team during an internship on a "Public Safety" app.
- Developed and deployed custom TensorFlow image classification model with explainable AI (XRAI/SHAP) on Google Cloud Platform using Vertex AI, achieving 92% accuracy for public safety emergency detection
- Managed independent work to meet deadlines while collaborating globally on project solutions.

## **TECHNICAL PROJECTS**

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### **Cryptocurrency Sentiment Analysis Dashboard (Master's Thesis)**

**Sept 2022 - Sept 2023**

**Kings College London**

- "Harnessing ChatGPT: A Deep Dive into Cryptocurrency Sentiment Analysis and Integration Potential", supervised by Dr. Riaz Ahmad
- Engineered GPT-3.5-powered sentiment analysis system processing real-time cryptocurrency market data using OpenAI API, achieving 70% correlation with market movements
- Built full-stack dashboard application integrating LLM-based sentiment scoring with financial data visualization using Python, Streamlit, and cloud deployment
- Implemented automated data pipeline processing 5,000+ social media posts and news articles using NLP preprocessing, API integration, and web scraping workflows
- Designed prompt engineering framework and few-shot learning strategies to optimize GPT-3.5 performance for financial sentiment classification

### **Saving Lives with AI : Team Lead**

**Sept 2020 – May 2021**

**(ATOS Sponsored Software Engineering Project)University of Nottingham**

- Led agile development team of 6 students building computer vision application using Azure ML, Azure Computer Vision API, and full-stack architecture (Python backend, JavaScript frontend)
- Managed project lifecycle from requirements gathering through production deployment, coordinating cross-functional responsibilities (ML development, frontend/backend engineering, DevOps)
- Developed emergency classification model for identifying safety incidents from uploaded images using Azure Custom Vision
- Presented technical solution to 250+ industry professionals, winning "Best Demonstration Award" for innovative ML application and technical execution quality

## **EDUCATION**

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### **MSc (Hons) Data Science – Passed with Distinction (77%)**

**Sept 2022 - Sept 2023**

**King's College London**

### **BSc (Hons) Computer Science with Artificial Intelligence – 2:1 Honors**

**Sept 2019 - Jul 2022**

**University of Nottingham**