

GOPALA BHAMIDIPATI

07719456050 | bhamidipatig@gmail.com | <https://www.linkedin.com/in/gopalabhamidipati/>

SKILLS

- Python, Java, Go, C#, HTML, CSS, JavaScript, React, Git, SQL, PHP, React, Django, Netlify, Fly.io
- Pandas, NumPy, Matplotlib, Docker, Terraform, Ansible, Hadoop, Apache Spark, NFS, BeeGFS

EDUCATION

University College London || London, UK September 2024 – September 2025
MSc Artificial Intelligence and Data Engineering

- **Relevant Coursework:** Software Development Practice, Requirements Engineering and Software Architecture, Engineering for Data Analysis, Introduction to Machine Learning, Applied Deep Learning

Queen Mary, University of London || London, UK September 2021 – June 2024
BSc Computer Science, First Class Honors

- **Relevant Coursework:** Algorithms and Data Structures, Software Engineering, Object-Oriented Programming, Web Technology, Distributed Systems, Database Systems, Big Data Processing

EXPERIENCE

IFRC: AI Software Engineer June 2025 – September 2025

- Engineered and deployed a scalable AI-powered system using Python into an existing infrastructure to extract and summarize key insights from emergency response reports across multiple workflows.
- Contributed to an open-source project aimed at developing AI-driven solutions that support real-time operational learning and critical decision-making during emergencies.
- Modernized legacy systems with AI technologies, enhancing global emergency response effectiveness.

Queen Mary, University of London: Teaching Assistant September 2022 – December 2022

- Guided 50+ students in understanding Computer System and Network concepts such as binary representation and assembly language.
- Enhanced communication skills by simplifying complex concepts, ensuring students with diverse learning backgrounds could grasp challenging material.

PROJECTS

Distributed Data Automation (Python, Terraform, Ansible, Spark, BeeGFS) January 2025 – April 2025

- Provisioned a distributed data processing pipeline across a 5-node cluster using Terraform and Ansible.
- Integrated Apache Spark for large-scale data processing and BeeGFS for high throughput distributed storage.
- Deployed Prometheus and Grafana for real-time monitoring and system metrics visualization.
- Reduced manual setup time by 70% through YAML-based playbooks and CI/CD driven automation.
- GitHub Repository: <https://github.com/gopala01/Distributed-Data-Automation>

Portfolio Website (React, JavaScript, SCSS) September 2024 – September 2024

- Designed and launched a responsive portfolio web application using React for fast front-end development.
- Integrated JavaScript and SCSS for a dynamic UI, ensuring cross-browser compatibility and optimized performances.
- Configured continuous integration and automated CI/CD deployment using Netlify.
- Live Demo: <https://gopala-portfolio-website.netlify.app>

Reddit Sentiment Summarizer (Python, Django, HTML, CSS, JavaScript, SQL) September 2023 – June 2024

- Developed a full-stack web application to analyze and summarize Reddit content using VADER for sentiment analysis and Pegasus-X for text summarization, enabling real-time toxicity detection across subreddits.
- Automated data mining through RESTful APIs, retrieving and processing over 100+ Reddit posts per day.
- Refactored a scalable Django backend, reducing API response latency by ~30% and supporting concurrent user requests with optimized database interactions.
- Secured user data with SQL-based authentication and data storage workflows, ensuring robust access control.
- GitHub Repository: <https://github.com/gopala01/Reddit-Sentiment-Summariser>