GOPALA BHAMIDIPATI

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

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, PySpark, BeeGFS)***   January 2025 – April 2025
- Provisioned a scalable distributed data processing pipeline across a 5-node cluster using Terraform for infrastructure provisioning and Ansible for configuration management.
- Applied PySpark's ALS algorithm to perform collaborative filtering and machine learning analysis, leveraging BeeGFS for high-throughput parallel file storage.
- Deployed Prometheus and Grafana dashboards for real-time monitoring and system metrics visualization.
- Reduced manual setup time by 70% through YAML-based playbooks and CI/CD driven automation.
- Secured cluster access using SSH keys and implemented host-based firewall rules.

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.

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.

SKILLS

- Python, Java, Go, C#, SQL, PHP, Git, JavaScript, React, Django, HTML, CSS, Netlify
- Pandas, NumPy, Matplotlib, Hadoop, PySpark, Docker, Kubernetes, Terraform, Ansible, NFS, BeeGFS