Mohammad Malik

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OBJECTIVE

Dynamic developer specializing in data and AI solutions, driving innovation and efficiency in fast-paced environments.

EXPERIENCE

Backend Developer – Cosmosys, AIM Lab FAST Islamabad, Pakistan — June 2024 - September 2024

- Designed, deployed, and managed containerized AI services, server-side components, such as OAuth and databases, on Virtual Private Servers (VPS) using Docker and Supabase. Ensured consistent, secure, and scalable performance.
- Automated routine server tasks using Python scripts, reducing manual efforts and improving operational efficiency, as well as smooth environment migrations with minimal downtime, ensuring high availability.
- Configured and managed CI/CD pipelines using GitHub Actions to streamline build, test, and deployment processes.

SKILLS

- Programming & Frameworks: Proficient in Python, R, JavaScript, MERN, C, C++, C#, and Java; experienced with Django, HTML, CSS, D3.js, and Python libraries such as Matplotlib and Seaborn for data visualization.
- Data Science & AI Technologies: Expertise in NumPy, Pandas, OpenCV and Scikit-Learn; Skilled in model training with TensorFlow, PyTorch, PySpark, and NLP tools (Ollama, LangChain, LangGraph). Proficient in data analysis and visualization with Tableau and Power BI, and with big data processing using Hadoop, Kafka and data management with S3 Storage and Azure Blobs.
- Cloud & DevOps: Managed deployments on GCP, Azure, AWS, and self-hosted servers using Docker and Supabase; implemented CI/CD pipelines with GitHub Actions and monitored systems with Prometheus and Grafana.

EDUCATION

- NUCES FAST Islamabad, Islamabad, Pakistan — BS (Data Science), 2026
- Benchmark School, Islamabad, Pakistan — O/A Levels, 2022

PROJECTS

Project Spotify (04/2024 - 05/2024)

A Spotify-inspired music streaming web-app built in Python + Django HTML, CSS, JS with Flask, utilizing a custom trained model through Spark and streaming a large dataset from Free Music Archive through Apache Kafka.

Amazon Metadata Item-set Mining (04/2024 - 04/2024)

Implementation of data mining techniques to find frequent item-sets utilizing A-Priori and PCY Algorithms leveraging Apache Kafka and Azure Blobs Storage for streaming an Amazon Reviews Metadata Dataset.

Wikipedia Text-blob Naive Search Engine (03/2024-03/2024)

A search engine utilizing Hadoop's MapReduce and HDFS on Azure Virtual Machines processes an extensive English Wikipedia dump, employing vector space models for efficient retrieval through distributed cloud computing.