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Mohammed Rahil Shiraz

Software Engineer

EDUCATION

B.E in Electronics and Communication Engineering

Aug '16 - Aug '20

Poojya Doddappa Appa College of Engineering

Kalaburgi, Karnataka

- Graduated with **8.0 CGPA**

TECHNICAL SKILLS

Python

C++

Data Structures

Operating System

Object Oriented Programming

Git & Github

Microservices

Dockers

Linux

SQL

Kafka

Machine Learning

PROFESSIONAL EXPERIENCE

Software Engineer

Sep '20 - Present

CloudFabrix Software

Hyderabad(Remote)

- Extended an existing solution for analysing time series data **using Facebook Prophet** as core engine for **forecasting, anomaly detection and dynamic thresholding**.
Major Improvements done: **Integration** with different data sources, **accuracy improvement** from 60% to ~90% of forecasting model, **latency optimization** in presenting results of analysis for large volumes of data.
Impact: **Optimized** collection of data across different customer data sources that resulted in hassle free customer POC's.
- Took ownership of migrating a **lambda based workflow to NATS based architecture** to perform complete ML lifecycle from **training to hosting of models**.
Impact: **Latency optimization** while working with large volumes of historical data.
- Redesigned and worked on **continuous development, integration and deployment** of an existing microservice to manage complete machine learning experiment lifecycle.
Major Improvements: Migration of storage of experiment data to **MySQL** database.
Impact: **Integration** with multiple microservices across the product to **proactively perform continuous analytics**.
- Developed a home grown python package for **correlation of real time metric data** to identify similar events.
- Built multiple **data integration and machine learning bots on a low code platform**.
- Gave **successful POC** of above developed solutions to customers across globe.
- Experience in integrating **backend microservices with frontend user interface**.

PROJECTS

- Automatic door unlocking system with Facial Recognition.**
 - Developed a complete end to end prototype for door unlocking system based on known **facial recognition of a person** and also implemented a **notification system** if unknown face is detected.
 - Tech Involved: **Raspberry Pi 3, Python, SMTP, MIME, Computer Vision and Deep Learning**.
- Face Mask Detection.**
 - Developed an AI model that detects** the presence of a face mask given a person's image.
 - Tech Involved: **Python, Computer Vision, Deep Learning**.
- Movie Recommendation System.**
 - Fetches movie data from IMDb Movie Database and developed a **ML model** to recommend similar movies using **cosine similarity to calculate similarities between movies** to the user based on user's last watched movie.
 - Tech Involved: **Python, Machine Learning**.