Muhammad Sheikh

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EDUCATION

VJTI   Mumbai, MH
B.Tech in ECE   *Dec. 2021 – May 2025*

PJSC,Dadar   Mumbai,MH
HSC   *May. 2019 – May. 2021*

EXPERIENCE

Data Analyst   Sep 2024 – Present
Freelance
- Objective-To leverage and develop trading strategies and visualize them on stock chart
- Developed a RAG system for earnings call.Furthermore performed sentiment analysis in order to gain actionable insights depending upon the sentiment of the call.Used Langchain,Groq,LLamaParse,Pinecone.
- Re-implemented trading strategies based on research papers and acheived 87% MAPE.
- Finetuned various llm's on Financial documents to assign risk Score.Visualised price plots using lightweight charts.

Process automation and Digital Transformation intern   June. 2024 – Aug 2024
Matrix 3d Infocom Ltd.
- Objective-Develop predictive modelling to estimate renewal of subscriptions and increase efficiency of various departments.
- Engineered and deployed a predictive model using advanced machine learning algorithms to analyze customer behavior and forecast churn risk, achieving a 95% improvement in prediction accuracy.
- Used the MSFT power platform to develop automation for HR and Sales teams.

PROJECTS

End to end supply chain management system | *Python, Flask,Open-cv,GPT-3.5,QWEN-VL* Aug.2024 - Sep 2024
- Developed an image preprocessing and post processing pipeline to classify and subsequently process objects.
- Extracted Date of Expiry and used QWEN-VL to classify objects based on category.Established an Azure db as well as an sqlite db to track inventory.Finetuned a GPT-3.5 model for detecting degree of freshness in produce.
- Used Anamoly-GPT and custom defect detection based on opencv to detect packaging defects.Deveoped a power-Bi dashboard connected with our Azure lakeview to gain insights on data.

Blind Assist Glasses | *: TensorFlow, Vosk, GPT-4 API, Gemini Speech-to-Text*   Feb 2024 – May 2024
- Created low-cost smart glasses with advanced AI integration, featuring TensorFlow for real-time obstacle detection and Vosk for voice activation.
- Incorporated GPT-4 API for intelligent assistance and Gemini Speech-to-Text for natural language interaction

Loan Prediction Web Application | *: scikit-learn, XGBoost, Flask, React, GitHub Actions*   Sep 2023 – Oct 2023
- Built an end-to-end loan prediction application using Python with scikit-learn and XGBoost for model training.
- Established CI/CD pipelines with GitHub Actions to automate testing and deployment

Achievements

SIH WINNER 2023
JEE-M 98.8 percentile with 99 percentile in maths
Selected for lateral entry in IIITH top 10 amongst 5000

Extra-curricular

Participated in the software team for mars rover achieving rank of 16 globally, VISHWA (2022-23)
Machine learning and marketing lead , GDSC (2023-24)

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), HTML/CSS
ML Skills :CNN,EDA , Mathematics for machine learning,Tensorflow,Keras,VLM's And LLM's, Computer vision,NLP
Developer Tools and extras: Git, Docker, Google Cloud Platform, Azure studio,ROS,OS,DBMS,CN,DSA,Microprocessors