Nouman Rasheed

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EXPERIENCE

Machine Learning Engineer   May 2022 - Present

DeerItc   *Al-khobar - Saudi Arabia*

- Developed Facial Recognition System with face embedding database with 97% recognition accuracy, on 20 real time live streaming with IP camera's with high scalability.
- Developed Forklift detection for accident analysis with 95% accuracy reducing accidents by 90%.
- Saudi license plate recognition with 98% accuracy for Automated Access with face recognition.
- Developed crowd counting and tracking solution to improved event safety and retail analysis.
- Architecting solutions for complex business problems involving large-scale real-time and asynchronous applications.

Computer Vision Engineer   Jun 2021 - Jan 2022

Sigma Vendors   *Islamabad - Pakistan*

- Raspberry Pi 3 Based Door Entry System on the Edge with Tiny YOLO-V5 for enhanced security in healthcare.
- Developed mask detection and people counting system and Achieved 95% detection accuracy.
- Built Dashboard using Streamlit and workflows for streamlined data ingestion and processing.

Senior Project   May 2021

Garbage Detection System

- Collected data around the campus and Labeled using LabelIMG with 3,000+ images.
- Trained a Mask-RCNN model for Garbage Detection with 90% accuracy for detection inside/outside the bins.
- Flask API Deployment: Implemented campus-wide, impacting 20+ locations and with real-time notifications.

PROJECTS

Business Intelligence Dashboard | *Python, Django, Rest API, Docker, ReactJs, MySql*

- Built Business Intelligence dashboard and ETL pipelines for excel, csv, doc and workflows for streamlined data ingestion and processing with Django REST API and ReactJs.
- Build multiple models for forecasting, prediction and data analysis.
- Utilized Gemini API for Prescriptive analysis of data and provide recommendations to improve business KIP's.

Crypto Analyzer (Sky Trading) | *Python, Django, API, ReactJs, Docker, MySql*

- Implemented ETL pipelines for data ingestion and created visualizations to analyze trading history
- Developed REST API's in Django with ReactJs dashboard for data analysis and forcasting.

RealEstate Property Estimator AI | *Python, Streamlit, Tensorflow, Pandas, Docker*

- Developed a Streamlit and AI-based real estate app with Folium maps, enabling dynamic location selection, proximity scoring, and travel time analysis.
- Includes customizable amenity preferences for ROI calculations and visualization of nearby services, facilitating informed property investment decisions.

EDUCATION

University of Kotli AJK   Pakistan

Bachelor of Science in Computer Science   *2017 – 2021*

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL (Postgres/MySQL), C++
Frameworks: TensorFlow, PyTorch, Keras, Django, Flask, Reactjs, NodeJs
AI: Computer Vision, NLP, Machine/Deep Learning, Data Visualization, Data Analysis, Statistics
Cloud and DevOps: AWS, GCP, Azure, Docker, K8s, Vercel, Heroku, Git, GitHub, Gitlab CI/CD
Backend: REST APIs, Webhooks, Websockets, GraphQL
Databases: SQL, MySQL, PostgreSQL, Firebase