



# Nouman Rasheed

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## EXPERIENCE

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### Deep learning Engineer, *DeerItc*

May 2022 – present  
Al khobar, Saudia Arabia

- Developed Forklift and Person detection system using **MobileNet-v2** on Google Coral Edge **TPU**, implemented tiling for small object detection. Achieved 95% accuracy, resulting in 90% reduction in forklift-related accidents.
- Trained **YoloV8** for Person Detection on Nvidia **H100** and **DeepSort** for realtime detection and tracking. Used the GStreamer for rtsp capture and deployed on Nvidia **Jetson** Orin.
- Working with developing a high-performance Facial Recognition System using **LFFD**, **FaceNet** and **Nvidia DeepStream**, achieving **97%** recognition accuracy across 20 concurrent real-time IP camera streams.
- Worked on custom **LPRNet** for Saudi License Plate recognition using **Tensorflow** with 90% accuracy.

### Computer Vision Engineer, *Sigma Vendors*

Sep 2021 – Apr 2022

- 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 custom workflows for streamlined data ingestion and processing.

### Garbage Detection, *Senior Project*

- Collected data around the campus and Labeled using **LabelIMG** Masking format with **9,000+** images.
- Trained a **Mask-RCNN** model for Garbage Detection with 86% accuracy for detection inside/outside the bins.
- Developed FastAPI and implemented campus-wide, impacting 20+ locations and with real-time notifications.

## PROJECTS

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

- Built Business Intelligence dashboard and ETL pipelines for data ingestions from excel, csv, doc file.
- Forecasting sales KPI's using **ARIMA**. Utilized **Gemini Pro API** for Prescriptive analysis of data and provide recommendations to improve business KIP's.
- Developed dashboard for interacting with the API's, with data Visualization for informed decision making.

### Crypto Analyzer ( *SkyTrading* ), *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 forecasting.

### RealEstate Property Estimator AI, *Python, Streamlit, Tensorflow, Pandas, Docker, AWS*

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

## EDUCATION

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### University of Kotli **AJK**, *Bachelor of Science in Computer Science*

Mar 2017 – Aug 2021

## SKILLS

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**Languages:** Python, JavaScript, SQL (Postgres/MySQL), C++

**Frameworks:** TensorFlow, PyTorch, Keras, Django, Flask, FastAPI, Reactjs, NodeJs

**AI:** Computer Vision, LLMS, NLP, Machine/Deep Learning, Data Visualization, Data Analysis, Statistics

**Cloud and DevOps:** AWS, GCP, Azure, Docker, K8s, Vercel, Terraform, Heroku, Git, GitHub, CI/CD

**Backend:** REST APIs, Webhooks, Websockets, GraphQL

**Databases:** SQL, MySQL, PostgreSQL, Firebase, Qdrant