Muhammad Rashid

Machine Learning Engineer

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PROFILE OVERVIEW

As a Machine Learning and Computer Vision Engineer, I have created intelligent systems that learn from data and make predictions. Proficient in Python, I handle all aspects of machine learning projects, from data preprocessing to model deployment. Skilled in Tensor Flow, Keras, Scikit-learn, and PyTorch, I have developed robust and scalable solutions tailored to business needs. My expertise in data analytics and computer vision allows me to extract meaningful insights and develop advanced visual recognition systems to drive informed business decisions.

Education

BS (Computer Science) | 2018 – 2022
National College of Business Administration & Economics, Lahore,
Pakistan Final Year Project (FYP): "Cars Model Detection System"
Supervisor: Dr. Sagheer Abbas (Dean of NCBA&E)

Skills

Machine Learning: AWS Sage Maker, Machine Learning Pipelines, Supervised and Unsupervised Learning, Data Preprocessing, Feature Engineering, Model Selection & Training, Scikit-Learn, TensorFlow, PyTorch, Transfer Learning (Pre-trained Models).

Computer Vision: Image Classification, Image Segmentation, Object Detection, Data Annotation, intelligent surveillance, RTSP Applications (Object Tracking, Traffic Monitoring, Industrial Automation)

Natural Language Processing (NLP): Retrieval-Augmented Generation (RAG), Large Language Models (LLM), Experience using pre-trained models like GPT, Llama, and Deep seek.

Model Deployment: FastAPI, Flask, Docker, Linux-Based System Development and Deployment

Programming Languages: Python, HTML/CSS

Experience

Machine Learning Engineer
OneKode International Pvt.Ltd. Islamabad, Pakistan |Dec 2024 – Present
- Developed an AI-driven solution to ensure compliance with personal protective equipment (PPE) regulations in industrial and construction environments by integrating a real-time alert system, enhancing workplace safety.
- Designed a system that uses AI to track and identify restricted area violations, sending instant alerts to prevent security risks and unauthorized access.

- Engineered an automated safety solution integrating AI and IoT sensors to detect leaks, spills, and fire hazards in real time. The system enhances industrial safety by enabling rapid emergency response and minimizing potential risks.
- Developed an AI-powered monitoring system to detect smoking in restricted areas, preventing potential fire hazards and ensuring strict compliance with safety regulations. Instant alerts and notifications help enforce fire prevention policies effectively.

Machine Learning Engineer

United Software and Technologies International Pvt.Ltd.

Lahore, Pakistan |Oct 2023 – Dec 2024

- Developed a deep learning-based system to identify vehicle damages and estimate repair costs, enhancing efficiency in insurance claims and auto repair assessments.
- Design and Developed Gulf Arabic Dialect Chabot using Bidirectional LSTM with Transformer architecture.
- Built a deep learning-driven system that applies transfer learning techniques to recognize and classify animal faces, aiding conservation and research.
- Created a cutting-edge real-time quality and defect detection system for dates using advanced computer vision techniques, seamlessly integrated with Fast API for deployment in mobile application

Junior Machine Learning Engineer

Techionik, Lahore, Pakistan |April 2023– Oct 2023

- Developed a CNN Model for Intelligent Traffic Sign Identification using TensorFlow and Karas
- Engineered a Breast Cancer Classification System with K-Nearest Neighbors (KNN) and Advanced Machine Learning Techniques

Freelance Work

- Dental Anatomy Detection and Disease Identification for Automated Dental Diagnostics Using Deep Learning.
- Developed an intelligent system utilizing Deep Extreme Learning Machine (DELM) to detect parking space availability, enhancing urban traffic management
- Designed a convolutional neural network (CNN) using VGG-16 & VGG-19 to automate the detection and classification of corn leaf diseases, enhancing agricultural productivity.

CERTIFICATIONS

- Machine Learning Model Deployment using Flask
- Python For Machine Learning and Data Science
- Deep learning and Neural Networks with Python
- Introduction To Machine Learning

Journey to AI World Boot camp
Prince Mohammed Bin Fahd University & Al Yamamah University
Focus: AI, ML, Deep Learning, AI Agents