Syed Muhammad Mehdi Jaffri *Data Scientist*

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Muhammad Mehdi

m-mehdi72

Bio

As a software engineering student with a passion for data science, I have expertise in ML, AI, and CV, allowing me to develop cutting-edge solutions using data. Proficient in Python, I thrive in complex programming challenges to create innovative solutions. My motivation and dedication make me a driven professional in the field of data science.

Skills

Problem Solving	●●●●○	Team Work	●●●●●
Python	●●●●○	Django	●●●○○
Machine Learning	●●●○○	Computer Vision	●●●●○
Artificial Intelligence	●●●○○	MongoDB/SQL/SQLite	●●●○○

Education

B.Sc Software Engineering — October 2020 – present

University of Engineering and Technology, Taxila — Taxila, Pakistan

I am gaining expertise in programming languages, software design patterns, DSA and database management through my curriculum, which prepares me to create optimized software solutions for real-world applications.

Professional Experience

Data Science Intern — June 2022 – August 2022

Eziline Software House — Rawalpindi, Pakistan

Projects

Email Spam/Non-Spam filter

Python(sklearn, statistics)

This project uses sklearn and machine learning techniques to train a spam/ham classification model using a dataset of emails. The model achieved an impressive accuracy score of 97%, distinguishing between spam and non-spam emails effectively.

Attendance System using FaceRecogniton

Python(cv2, face_recognition)

This project is an automated attendance marking system that utilizes computer vision and machine learning. It detects faces using Python, cv2, and face_recognition libraries, and automatically updates an Excel file with attendance information when a face is detected in front of a camera.

Cricket DRS System

Python (tkinter, cv2, PIL, cvzone, scipy)

The project enables the 3rd umpire to carefully assess specific aspects like boundaries, catches, and LBW calls. By analyzing the ball's trajectory frame by frame, the system helps the 3rd umpire make accurate decisions, ensuring fairness in the game. Through detailed review and analysis, the 3rd umpire gains a comprehensive understanding, leading to well-informed judgments.

Speech Enhancement

Python (tensorflow, scipy, sklearn, matplotlib, pystoi)

The Speech Enhancement project utilizes TensorFlow (tf) and scikit-learn (sklearn) to train a CNN sequential model. It loads a WAV file, converts it to a spectrogram, removes noisy spectra, and reconstructs a clean audio signal. The project aims to enhance speech quality by effectively reducing noise and improving the clarity of the output.

Automated Attendance System WebApp

Django, HTML, CSS, Bootstrap, Python(OpenCV, face_recognition), sqlite

The Face Recognition Attendance System, built with Django and SQLite, employs face recognition technology to mark attendance. It allows the admin to add, remove, and monitor students, while also providing real-time camera footage. This project streamlines attendance management and offers enhanced control through accurate face recognition and convenient database operations.