Umer Siddiqui

AI/ML Engineer || Python Developer

I'm a programmer skilled in Data Science, Machine Learning, and Python. I've developed deep learning projects like a CNN-based game, real-time violence detection using YOLOv8, and a patient face recognition system with Flask. I also enjoy creating games with Pygame and building smart home automation systems with IoT and Arduino. Let's collaborate to create something innovative!

um3rsiddiqui99@gmail.com

0341-8094081

Karachi, Pakistan

umersidiqui.github.io/Portfolio/

linkedin.com/in/um3r-siddiqui

github.com/UmerSidiqui

EDUCATION

Engineering Program
NED University of Engineering and Technology

02/2022 - 02/2026 *Karachi Grade :B*

Department:

- Electrical Engineering

SKILLS

Data Science | Deep Learning | Machine Learning | Python programming | Computer Vision | EDA | Python Development

INTERNSHIP

AI Intern
NCL NEDUET

04/2024 - Present

Achievements/Tasks

- I am currently interning at NCL, contributing to AI and EDA projects. This role allows me to apply my expertise in data exploration, AI model building, and optimization to deliver impactful results in real-world applications.

PERSONAL PROJECTS

CNN MULTI CLASS GAME :- Deep Learning || Computer Vision || Python Programming || pygame

- In this project, I automated a game I developed during my second semester by utilizing a CNN model to detect hand postures, enabling gesture-based control for gameplay.

BLDC Fan Data Analysis:- Exploratory Data Analysis || Machine Learning Flask

- This project demonstrates the analysis of BLDC (Brushless Direct Current) fan data using an Artificial Neural Network (ANN) model to predict the speed of the fan based on various environmental factors. The project is deployed on Flask and includes a trained ANN that is used to make predictions on real-time data.

Voilence Detector :- Deep Learning || Computer Vision || Object Detection || Yolo V8

- This project is a Flask-based web application for real-time violence detection in uploaded video files. It utilizes a retrained YOLOv8 model to detect violent activities and annotate video frames. Users can upload videos through a web interface, which are then processed and streamed with violence detection alerts. The application supports real-time processing, displaying annotated video frames.

Patient Face Recognition System:-Deep Learning || Computer Vision || Face Recognition || Flask

- Patients register by submitting a form and face image. DeepFace (VGG-Face) creates face embeddings, stored with patient info in SQLite. For detection, live video embeddings are matched with stored ones, displaying details if matched. Flask handles the web interface and database operations.

SPACE SHOOTER GAME (Pygame) Skills: Python (Programming)

- I created this game using pygame and its function that takes input from keybord,up ,down ,left ,right and shoot and acts accordingly.

HOME AUTOMATIONS AND IOT(ARDUINO):

- I have made home automation projects like automatic generator and main supply controller,water motor automator and app controlled appliences.