

Samiha Azeem

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Summary

Driven by a passion for innovation, I am eager to leverage my academic knowledge in real-world challenges

Core Competencies

- Python
- Machine Learning/NLP
- Scikit-learn
- Data Preprocessing
- Pandas/NumPy

Education

BS Hons Computer Science (Minor: Mathematics)

2024

Forman Christian College (A Chartered university), Lahore.

Projects

Automatic Number Plate Recognition (ANPR) System

- Developed a robust ANPR system using YOLOv8, integrated a live camera feed to capture and process license plates in real time, with automatic image saving functionality.

Hybrid Summarizer

- Developed a Hybrid Summarizer that takes pdf as input and summarizes it using Extractive and Abstractive (Transformer - T5) techniques.

Real-Time T-Shirt Color Recognition

- Developed a real-time T-shirt color recognition model using YOLOv8 and CNN, accurately identifying blue, black, white, and grey T-shirts.

PDF-Interactive Chatbot with Conversational Memory

- Developed a chatbot using the Gemini API, integrating FAISS for PDF data storage and enabling interactive queries with conversational memory.

Fine-Tuned Stable Diffusion Model

- Fine-tuned the Stable Diffusion SD 3 Medium model on custom images to generate AI-generated visuals.

Stock Prediction System

- Implemented LSTM and SARIMA models for stock prediction, demonstrating proficiency in time series analysis and forecasting techniques.

Iris Species Identification

- Utilized K-means clustering, elbow curve analysis, and label encoding techniques to classify species in the Iris dataset. Expanded dataset to 500 entries for enhanced accuracy, effectively identifying species.

Experience

Bootcamp

Machine Learning 1

2024

- Working on projects to apply concepts such as data cleaning, EDA, feature engineering, and model evaluation.

Machine Learning Internship

Axix Technologies

2024

- Studied machine learning algorithms and honed skills in data analysis with Pandas and visualization with Matplotlib

Python Intern

Codsoft

2023

- Designed and developed user interfaces using GUI libraries such as Tkinter