BILAL HANEEF

Details

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49 Landhi, Karachi

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Email
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Links

GitHub

LinkedIn

Kaggle

Website

YouTube

Skills

Languages
PYTHON
C
BASH
HTML / CSS
SQL

Libraries
NUMPY
PANDAS
SCIPY
SEABORN
LANGCHAIN
MATPLOTLIB
KERAS
NLTK

Profile

I am a **final year** software engineering undergrad student at **Karachi University (UBIT)**. I have been practicing data science and worked on Data **Analytics, Machine Learning, Deep Learning, Computer Vision, and Natural Language Processing**. I have also published articles on machine learning models. My goal is to contribute my expertise to drive innovation, improve business processes, and deliver impactful solutions in the field of ML/DL/CV.

Education

Secondary Education
Bilal Grammar Secondary School
2016 - 2017

Intermediate Education
Govt. Degree Boys College
2018 - 2019

Bachelors Education
Karachi University (UBIT)
2020 - Present

Employement History

ProximaAI (ICCBS-KU)

During **my internship at ProximaAI**, I had the opportunity to work on a diverse range of projects involving the creation of meaningful dashboards, data scraping, and the application of **Data Analytics, Machine Learning, Deep Learning, and Computer Vision.**

Accomplishments

1. Developed intuitive and informative dashboards that improved data accessibility and facilitated decision-making for clients.
2. Successfully implemented web scraping techniques to gather relevant data from diverse sources, ensuring the accuracy and integrity of the collected information
3. Presented data analysis findings in a clear and concise manner, enabling stakeholders to make informed decisions based on the results.
4. Developed cutting-edge computer vision applications based on real-life scenarios.

Projects

Customer Churn Prediction
- I utilized an **Artificial Neural Network (ANN)** model with **Dropout Regularization** to analyze a dataset and make predictions on customer churn.
- Through this approach, I **improved the accuracy** from **60% to 80%**, indicating the model's ability to effectively identify potential customer churn.

Real-Time Vehicle Counter
- I built a "Vehicle Counter" system using a **pre-trained YOLOv8** model from **Ultralytics**. It can accurately detect and track vehicles in real time.
- The "Vehicle Counter" system provides valuable insights into the traffic flow, occupancy rates, and congestion levels, enabling informed decision-making for infrastructure planning and transportation optimization.

Real-Time License Plate Extractor
- I created a real-time license plate extractor using **YOLOv8, custom-trained on license plate data**. It accurately detects and extracts license plate information from images or videos.
- By integrating **Keras OCR**, I **extracted text from the detected license plates**, facilitating efficient data processing and analysis.
- The extracted license plate data is **saved in an Excel file**, providing a convenient format for organizing, storing, and analyzing the information for applications like traffic management, law enforcement, or parking systems.

Chat Bot
- Developed a chatbot using **Natural Language Toolkit (NLTK)** and leveraged a JSON dataset for training and interaction.
- Implemented pre-processing techniques such as tokenization, stemming, and lemmatization to enhance the chatbot's understanding and response generation.
- Trained the chatbot model using **Artificial Neural Networks (ANN)** to enhance its ability to understand and generate more contextually relevant responses based on input from users.

Certifications

Machine Learning Specialization (Coursera)

Deep Learning Specialization (Coursera)

Statistics For Business Analysis (365DataScience)

Optical Character Recognition MasterClass (Udemy)

SQL Fundamentals (DataCamp)

Data Analyst in Power BI (DataCamp)

Data Analysis With Python (FreeCodeCamp)

Web Scraping in Python (DataCamp)

Advanced SQL (Kaggle)