Hamza Naeem
DATA SCIENTIST

ABOUT ME

Highly accurate and experienced Data Scientist adept at collecting, analyzing, and interpreting large datasets, developing models, and writing code in Python. Possessing extensive analytical skills, strong attention to detail, and a significant ability to work in team environments.

Skillful in Data Science area having knowledge of multiple algorithms like CNN, MLP, GAN's, etc and experience in developing Object Detection System, Synthetic Image Generation , Image Classification etc.

EDUCATION

UNIVERSITY OF LAHORE, LAHORE.

2016- 2020   BSCS

I have started my professional career in the domain of computer science in 2016. I have learned a different number of subjects but OOP, Data Structures, Artificial Intelligence, Machine Learning I enjoyed the most.

- Awarded [RoboMela]
- Graduated with [3.1] GPA
- Received Scholarship

EXPERIENCE

March 2021 to present

NeuralNest AI

- Collaborated with the leadership team to identify relevant questions and determine the best methods of collection.
- Performed experiments on multiple algorithms of Machine and Deep Learning and documented all findings.
- Designed and executed study approaches. Taught to the students as well.

Dec 2020 to March 2021

Data Scientist At SlimLogix.

- Developed roadmaps based on impact, effort, and test coordinations, working with stakeholders to achieve short-term and long-term goals.
- Coached, developed, and motivated team members, providing coaching and mentoring to junior data scientists.
- Gathered requirements and developed project plans.
- Participated in multidisciplinary projects in areas such as Image Generations using GAN's, Object Detection, Human Face Recognition etc.

PROJECTS

Recommendation Engine

This project consists of two parts . Making a Recommendation system locally and check the accuracy of model . Second one is to make the Recommendation system on AWS using Amazon Personalize service and then check accuracy . Pick one which has highest accuracy !

Visual Question Answering

VQA works on images and on NLP . Model takes a question and image as input and then model have to answer the question based on what the image is saying. We use two different models (LSTM+CNN) and combine both of them to single MLP and then trained the model .

Data Synthesization on Large datasets

Project description : Created synthetic data from original data and compared both data statistics according to their confusion matrices and Mean Average etc . Used Random Forest , SVM , Logistic Regression , KNN for classification and SDV , DS , Synthpop libraries used for making synthetic data

Brands Logos Recognition

Identify specific brands belongs to which class. For example , if there is a logo of Pepsi in image or whatever logo it will be classify as its class (in this case , Pepsi) . Tried all versions of MobileNet (V1,V2,V3small) .

CONTACT

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Intelligent Tourist Aid (FYP)

This project is to guide the tourists about the whole history of the historical place in that place as a form of Audio in real-time and recommend other nearby historical places. My module was to develop Machine learning which I accomplish by using MLP+SIFT Features (Features extraction Techinque)

Object Detection System

Project is all about detecting the daily life objects in the image and recognize it . Tools and technologies used YOLO V3 , Python , Open CV.

Person Segmentation

This project consists of person datasets in which model has been trained such that person should be segmented from images and it generates the mask . The tools and technologies used in this project are UNET , Tensorflow and keras.

Stock Prediction on Time Series data

Make Stock market prediction using time series data , I made two models because there are two datasets on which I have to do classification on complete dataset to identify that whether stock will gets executed or cancelled , if it executes then I have to do a prediction on it . Used two models (MLP + Stacked LSTM).

SKILLS

1. Artificial Intelligence
2. C++
3. Computer Vision
4. Data Structures
5. Deep Learning
6. HTML 5
7. JavaScript
8. Keras
9. Machine Learning
10. Neural Networks
11. OOP
12. Python
13. Tensorflow
14. Transfer Learning
15. Data Science
16. Data Visualization
17. Flask
18. Natural Language Processing

TOOLS LIBRARIES AND TECHNOLOGIES

Anaconda Navigator, PyCharm, Jupyter Notebook, Google Colab, TensorFlow, Keras, Visual Code, Spyder, Sklearn, Numpy, Pandas, Matplotlib, Seaborn, etc.

PORTFOLIO LINKS

HOBBIES

Cricket   Reading   Reserch   Movie

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