

USAMA YAZDANI

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EDUCATION

National University Of Computer & Emerging Science(FAST)

August 2020 – May 2024

Bachelor's in Computer Science

Pakistan

EXPERIENCE

Telenor Microfinance Bank Limited

July 2023 – August 2023

Data Science Intern

Islamabad, Pakistan

- Engaged in data analysis projects during a data science internship, utilizing various techniques to extract insights from datasets and inform business decisions, while participating in key business meetings.

PROJECTS

FYP — Suspect Face Sketch using textual description.

- Developed a system for generating forensic sketches of suspects on the basis of provided description.
- Implemented Generative Adversarial Network (GAN) with the help of Pytorch.
- Used BERT as our NLP Model for the generation of embeddings for training the GAN Model.
- Developed a user-friendly interface for sketch generation.

FAST University Chatbot System -Semester Project

- Developed a chatbot system utilizing, Langchain, Prompt Engineering, and Vector Databases technologies.
- Implemented Generative Adversarial Network (GAN) with the help of Pytorch.
- Utilized Google PALM API to answer frequently asked questions (FAQs) of students at FAST University.
- Implemented a RAG-based approach to enhance response quality and relevance in the chatbot system.

Cyber-Attack Classification and Clustering in Network Traffic.

- The objective of the project is to apply the different classification and clustering algorithms to the problem of classifying cyber-attacks in network traffic..
- Machine Learning Algorithms:**K-Nearest Neighbors,Decision Tree,Artificial Neural Networks (ANN)

ETL Project

- Uploaded data from a CSV file to a PostgreSQL database, ensuring accurate and efficient data storage.
- Utilized PySpark to extract data from PostgreSQL, applied necessary transformations, and reloaded the transformed data back into PostgreSQL.
- Scheduled and orchestrated the entire ETL process using Apache Airflow, automating data workflows and ensuring timely data processing.
- Tech Stack:** PostgreSQL, PySpark, Apache Airflow, CSV

Comprehensive Retail Order Insights Using SQL and Python

- Dataset Handling: Downloaded and preprocessed retail order data from Kaggle using Python.
- Data Management: Loaded the cleaned data into SQL Server for efficient storage and access.
- Data Analysis: Executed SQL queries to analyze and derive insights from the retail order data.

SKILLS

Languages: Python, Java, C, C++, Dart, JavaScript, SQL, Assembly, NoSQL

Tools: VS Code, Android Studio, Jupyter notebook, Power bi,Excel,Git,Apache Airflow

Libraries and Frameworks:Numpy,Pandas,PyTorch,OpenCV,React,PySpark

EXTRACURRICULAR

Google Developer Student club

Feb 2022 – Jan 2023

Core Team Member

- As a core team member of the GDSC, I help organize tech events, workshops, and foster a vibrant tech community, promoting learning and collaboration among students and developers.
- Participation Certificate.