Data Engineer / Data Analyst

MUHAMMAD TALHA

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Education

BACHELOR IN COMPUTER SCIENCE – Fast NUCES – Peshawar   2024

Skills

- Python : NumPy, Pandas, Seaborn, Matplotlib,SciKit-learn, Beautiful Soup, Tensor Flow, Keras (View my work)
- SQL : MySQL, MongoDB
- Data Wrangling
- Data Science Methodology
- Git | Github

- Microsoft Power BI
- Linux
- Apache Spark
- Apache Kafka

Projects

REAL TIME TRAFFIC ANALYTICS AND DYNAMIC SIGNALING –Final year Project – code
- Fetch Real-Time traffic data from **Google API** and simulated it in **SUMO.**
- Consumed real time data with **Kafka**.
- Used **SparkML** to train a RandomForest Regressor and **Spark Stream** for prediction
- Predictive Analytics are displayed on a **Streamlit** Dashboard

CLASSIFYING CYBER ATTACKS IN NETWORK – Personal Project - code   2022
- Utilized **Python** to apply different classification and clustering techniques to the problem of
- Aggregated and visualized the data by using **pandas, matplotlib** and **Latex** to compile a professional report.

DETECTION OF OSTEOARTHRITIS IN RADIAGRAPHIC IMAGES – Virtual Client's – code
- Data preprocessing pipeline incorporating resizing, normalization, noise reduction, and data augmentation.
- Fine-tuning pretrained models on the dataset for knee osteoarthritis detection.
- Used Deep learning frameworks such as **TensorFlow** or **PyTorch** for developing neural network models

Experience

WALLMART GLOBAL SOFTWARE ENGINEERING VIRTUAL EXPERIENCE PROGRAM – Forages – virtual
- Conducted market research, consumer needs analysis, and data analysis to create a client recommendation.

Certifications

- Data Analysis with Python – Authorized by IBM
- Data Science Methodology – Authorized by IBM
- Data Science Orientation – Authorized by IBM
- Tools for Data Science V2 – Authorized by IBM