| Data Engineer / Data Analyst  **Muhammad Talha** | +92-3085941722  [itsmuhammadtalha1@gmail.com](mailto:itsmuhammadtalha1@gmail.com)  **LinedIn :** [LinekdIn Profile](https://www.linkedin.com/in/muhammad-talha-933481210/%20)  **Github:** [Github](https://portfoliosample.com/) Profile  **Blogs:** [Hashnode Profile](https://hashnode.com/@muhammad-talha)  Peshawar, Pakistan |
| --- | --- |

# 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](https://github.com/itsMuhammadtalha/Data-Science))
* SQL : MySQL, MongoDB
* Data Wrangling
* Data Science Methodology
* Git | Github
* Linux
* Apache Spark
* Apache Kafka
* Bash - Shell scripting

# Projects

**Real Time traffic analytics and dynamic signaling –**Final year Project – [code](https://github.com/itsMuhammadtalha/Real-Time-Traffic-Analytics-and-Congestion-Control/)

* 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](https://github.com/itsMuhammadtalha/Detection-of-Osteoarthritis-using-Advance-Segmentation-in-Radiographic-Images%20)

* 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](https://www.credly.com/badges/67dbd099-eb20-49e2-a7e9-246169de1c75/linked_in_profile)
* Data Science Methodology – [Authorized by IBM](https://www.credly.com/badges/a3556805-6df6-4ade-8fa9-b5e516547d97/linked_in_profile)
* Data Science Orientation – [Authorized by IBM](https://www.credly.com/badges/5d6d0afb-4389-48a5-bbcb-d6ec08ede08c/linked_in_profile)
* Tools for Data Science V2 – [Authorized by IBM](https://www.credly.com/badges/8235d929-cd99-4ecd-9346-4336c1e8122c/linked_in_profile)