europass

Muhammad Talha

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ABOUT ME

As a passionate and dedicated Data Science student, I possess a strong foundation in core Computer Science and Data Science skills including OOP, Data Structures, Data Wrangling and EDA.
At Asterisc Technocrat, I developed and deployed data pipelines, built machine learning models, and conducted EDA. Participating in Walmart's Global Software Engineering Virtual Experience Program further refined my skills in data-driven decision making and client-focused strategies.
I am proficient in Python, C++, MySQL, Postgres, Git, Linux, Apache Spark, Apache Kafka, and Apache Airflow. My projects, like Real-Time Traffic Analytics and Cyber Attack Classification, illustrate my ability to solve real-world problems with data science.
Fluent in English and Urdu, I excel in collaborating with diverse teams to drive innovation and impactful solutions.

WORK EXPERIENCE

01/08/2023 – 30/11/2023 Remote, India

DATA SCIENCE INTERN ASTERISC TECHNOCRAT

• Developed and deployed data preprocessing pipelines to clean and transform large datasets for analysis.
• Built machine learning models to extract actionable insights and solve business challenges.
• Conducted exploratory data analysis (EDA) and presented results using visualization tools like Matplotlib and Seaborn.

01/12/2023 – 30/12/2023 Remote, Pakistan

WALMART GLOBAL SOFTWARE ENGINEERING VIRTUAL EXPERIENCE PROGRAM WALMART GLOBAL SOFTWARE ENGINEERING, FORAGES

• Conducted market research and consumer needs analysis to create data-driven client recommendations.
• Analyzed data to identify trends and patterns, optimizing client-focused strategies.
• Delivered a structured solution approach showcasing problem-solving and data analysis skills.

EDUCATION AND TRAINING

2020 – 2025 Peshawar , Pakistan

BS COMPUTER SCIENCE National University of Computer and Emerging Sciences

The major modules I studied during this degree are:

- Data Structures
- Web Engineering
- Artificial Intelligence
- Software Engineering
- Parallel and Distributed Computing
- Information Security and Network Security

Website https://pwr.nu.edu.pk/ | **Final grade** 3.8 / 4.0 (1.3 in German grading system)

2017 – 2019 Peshawar, Pakistan

FSC Islamia College Peshawar

The major modules I studied during this course are:

- Physics

- Computer
- Mathematics

Website https://www.icp.edu.pk/

2017 peshawar, Pakistan

MATRIC -SSC Peshawar Model School

The major modules I studied during this course are:

- Physics
- Chemistry
- Mathematics
- Computer Science

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	A2	A1	B1	A2	B1

COMMUNICATION AND INTERPERSONAL SKILLS

Soft Skills

- Adaptability
- Problem-Solving
- Attention to Detail
- Time Management
- Team work

PROGRAMMING SKILLS

Languages

- Javascript
- Python
- Bash
- Assembly language
- C++

Projects

Real-Time Traffic Analytics and Dynamic Signaling - **Code**
- Fetched real-time traffic data from Google API and simulated it using SUMO.
- Designed and implemented a real-time data pipeline with Kafka and Spark Streaming.
- Developed predictive models using SparkML to train a Random Forest Regressor for traffic volume predictions.
- Displayed real-time, historical, and predictive analytics on a Streamlit dashboard.

Classifying Cyber Attacks in Networks - **Code**
- Applied classification and clustering techniques using Python for detecting and analyzing cyber attacks.
- Performed data aggregation and visualization with pandas and matplotlib.
- Authored a professional report incorporating findings, using LaTeX for documentation.

Detection of Osteoarthritis in Radiographic Images - **Code**
- Built a data preprocessing pipeline, including resizing, normalization, noise reduction, and data augmentation.
- Fine-tuned pretrained models with TensorFlow and PyTorch for knee osteoarthritis detection.
- Designed deep learning architectures to enhance model accuracy for image classification tasks.

TEACHER'S ASSISTANT

08/2024 – 01/2025

Teacher's Assistant for Data Science - NUCES

- Mentored students in Data Science Subject,
- Teaching different tool like Tableau, Power Bi, Knime
- Teaching and Practicing Data Science Techniques
- Conducting Assessment in quizes and Projects