

Tayyab Ehsan

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DATA SCIENTIST

Experienced Data Scientist skilled in analyzing, modeling, and optimizing data using Python (NumPy, Pandas, Scikit-learn). Specialized in deep learning with TensorFlow and PyTorch, plus time series analysis and statistical modeling. Solid understanding of cloud platforms, databases, and scalable data pipelines. Known for clean code, an analytical, collaborative style, and delivering fast, reliable insights with modern ML tools.

EDUCATION

M.Sc. Data Science | Technische Universität Darmstadt | Darmstadt, Germany 2025 – Current
B.Sc. Mathematics | Air University | Islamabad, Pakistan 2020 – 2024
Certifications: Python for Data Science | Python (HackerRank) | SQL (HackerRank) | Front-End Development | Cloud & Docker | Machine Learning & Deep Learning.

SKILLS

Programming Languages: Python, C++, PHP, JavaScript, HTML, CSS.
Libraries and Frameworks: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, XGBoost, Pyomo.
Databases: MySQL, PostgreSQL, MongoDB, SQL.
Tools & DevOps: Docker, Git, REST APIs, CI/CD Pipelines, AWS, Agile Methodologies.
Soft Skills: Problem-Solving, Team Collaboration, Analytical Thinking, Continuous Learning.

PROFESSIONAL EXPERIENCE

Assistant System Administrator | Bar Systems GmbH | Frankfurt, Germany 03/2026 – Current

- IT Support & Operations: Support IT systems administration and day-to-day operational tasks for the company's Frankfurt establishment.

Junior Data Scientist | 9t9solution | Islamabad, Pakistan 07/2023 – 03/2024

- Backend & API Development: Developed backend services using Python (Flask, FastAPI) and integrated REST APIs to support data-driven applications.
- Machine Learning & Deployment: Built and deployed ML models (XGBoost, LSTM, ARIMA) via Flask and FastAPI; managed databases (PostgreSQL, MongoDB).

Data Analyst | Webx Technology | Islamabad, Pakistan 09/2022 – 05/2023

- Data Analysis & Modeling: Processed and analyzed data, and developed machine learning models to enhance business decision-making.

Freelancing | Video Editing / Graphic Design | Remote 01/2020 – Current

- Video Production: Edited over 500 videos for high-traffic YouTube channels, boosting viewer engagement.
- Graphic Design: Designed hundreds of book covers, improving sales performance and visual branding.

PROJECTS (GitHub)

Battery Optimization (Python, Time Series Analysis, Pyomo, Energy Storage, Grid Stability) 07/2024 – Current
Soiling Prediction & Analysis (AI, ML, Time Series, Python, AVUSpro) 10/2023 – 04/2024
Time Series Forecasting (Python, Time Series Analysis, Prophet, Forecasting) 05/2023 – 08/2023
Financial Market Forecasting (Time Series Analysis, AI, ML, Python, ARIMA, LSTM) 02/2023 – 05/2023
Medicine Sales Forecasting (Python, SARIMA, Random Forest) 02/2022 – 07/2022

LANGUAGES

English – C1
German – B1 (telc certified)