Malik Moaz

📍 Lahore, Punjab, Pakistan

📞 +92 305 5865381

✉️ mlkmoaz01@gmail.com

GitHub: malikmoaz01

LinkedIn: malik-moaz-735911247

Website: https://malikmoaz.vercel.app

Objective

Data Scientist with a strong foundation in **Python, SQL, and Machine Learning**, experienced in **data cleaning, feature engineering, exploratory data analysis, and supervised learning**. Adept at transforming raw data into actionable insights through analytical reporting and visualization. Passionate about continuous learning, experimentation, and collaborating with cross-functional teams to build **scalable, data-driven AI solutions**.

Professional Experience

AI Engineer | TxLabz, Lahore, Pakistan   June 2025 – Present

- Cleaned, explored, and analyzed structured datasets using **Python (pandas, NumPy)** to support ML-based product features.
- Built **baseline supervised ML models** for classification and recommendation use cases.
- Performed **feature engineering and feature importance analysis** to improve model performance.
- Developed **Python data pipelines** and conducted ad-hoc analysis using **SQL**.
- Integrated ML and LLM-based components into production-ready web applications.
- Collaborated closely with engineers to deploy and monitor ML-driven features.

Junior Full Stack Developer | Vast, Lahore, Pakistan   July 2023 – Dec 2024

- Developed end-to-end applications using **React.js/Next.js and Python-based(Django , Fast Api) backends**.
- Applied **machine learning models (scikit-learn)** for prediction and recommendation features.
- Conducted exploratory data analysis (EDA) and visualized insights using **Matplotlib**.
- Used **Git and Jupyter Notebooks** for experimentation and version control.

Education

Faculty of Computing & Information Technology (PU)   Nov , 2021 – June 2025

Bachelor of Science – Software Engineering   Lahore, Punjab, Pakistan

- Percentage : 81.5%

DeepLearning.AI   Mar , 2024 – June , 2024

Coursera - Deep Learning Specialization   Palo Alto, California, USA

- Percentage : 98%

Skills

- **Programming:** Python, SQL, JavaScript
- **Data Science & ML:** pandas, NumPy, scikit-learn, XGBoost (basic), TensorFlow , LangChain
- **Data Analysis:** EDA, feature engineering, model evaluation
- **Visualization:** Matplotlib, Plotly
- **Tools:** Jupyter Notebook, Git, Docker
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud/Deployment:** Docker, AWS Lambda (basic exposure)

Projects

Transaction Risk Scoring System

- Designed an end-to-end **transaction risk scoring model** using synthetic transaction data.
- Cleaned and preprocessed raw transactional data using **Python and SQL**.
- Built and evaluated **supervised classification models** (Logistic Regression, Random Forest).
- Engineered features such as transaction frequency, amount deviation, and user behavior metrics.
- Performed **feature importance and interpretability analysis** to explain model decisions.
- Generated analytical reports and visualizations for stakeholder understanding.

Data Intelligence Assistant

- Developed an **LLM-powered data assistant** using **LangChain** to answer analytical and business queries over structured and unstructured datasets.
- Implemented **Retrieval-Augmented Generation (RAG)** by converting documents and reports into embeddings and storing them in a vector database.
- Built **Chains and Agents** to orchestrate multi-step reasoning and dynamic tool usage.
- Integrated **SQL tools** within LangChain to fetch and analyze transactional-style data.
- Designed **prompt templates** to generate concise, interpretable insights for non-technical stakeholders.
- Evaluated responses for accuracy and relevance, improving output quality through iterative prompt tuning.

Fashniz – ML-Powered E-commerce Platform (FYP)

- Implemented **dynamic pricing and recommendation models** using Python ML libraries.
- Conducted feature engineering and evaluated model performance.
- Delivered insights through dashboards and visualizations.