

Hassan Raza

Data & Analytics Professional

Pakistan (+92) 335 5102051

razakhattak123@gmail.com

Portfolio: <https://hassan-raza-ktk.github.io/portfolio/>

Streamlit: <https://share.streamlit.io/user/hassan-raza-ktk>

LinkedIn: <https://www.linkedin.com/in/hassan-raza-9651b6279/>

PROFESSIONAL SUMMARY

Data and analytics professional with hands-on experience across data analysis, machine learning, and analytics engineering. Experienced in building end-to-end data solutions including dashboards, predictive models, and production-ready data applications using Python and SQL. Proven ability to work across the full data lifecycle from data preparation and modeling to deployment and user-facing analytics.

CORE SKILLS

Data Analysis & Reporting: SQL (PostgreSQL, SQLite), EDA, KPIs, Dashboards (Streamlit)

Machine Learning & Modeling: Regression, Classification, NLP (TF-IDF), Anomaly Detection, Model Evaluation

Data Applications & Engineering: Python Data Apps, Streamlit Multi-page Systems, Data Modeling, Python (Tkinter) Desktop Apps

Deployment & Delivery: Desktop Executables (.exe), Cloud Deployment, Offline-first Systems

Visualization: Plotly, Matplotlib, Seaborn

SKILLS

- Strong analytical and data interpretation skills
- Excellent communication skills
- Ability to manage priorities and cross-functional collaboration
- Python, Streamlit, Pandas, Numpy, Scikit-Learn, Seaborn, Plotly, Matplotlib, SQL, Supabase, Firebase
- Exploratory data analysis
- Regression analysis
- Advanced modeling
- Statistical analytics

PROJECTS

- **Perfume Store Analytics Dashboard (Python, Streamlit, PostgreSQL, Supabase)**

Designed and developed an end-to-end analytics dashboard for a perfume retail business.

Implemented PostgreSQL database hosted on Supabase for secure cloud data storage.

Built interactive Streamlit dashboards for sales trends, product performance, revenue analysis, and customer insights.

Enabled real-time data updates and deployment-ready architecture for business decision support.

Deployed dashboard online with role-ready structure suitable for remote analytics use.
- **SMC Clinic Management Software (Python, SQLite, CustomTkinter)**

Developed a professional desktop-based Clinic Management System using Python and CustomTkinter.

The software includes secure login, patient registration, visit history tracking, medicine template management, and a configurable dashboard with real-time statistics.

Implemented SQLite for structured medical data storage and designed the system for offline clinic usage with future scalability.

Deployed as an executable (.exe) for offline use by doctor.
- **E-Commerce Website (HTML, CSS, JavaScript, Firebase)**

Designed and developed a complete e-commerce website for Lawari Food brand.

Implemented modern, responsive UI using HTML, CSS, and JavaScript.

Integrated Firebase as backend for database, authentication, and product management.

Developed admin panel features for product add/update, pricing control, and inventory handling.

Enabled order management, customer data storage, and real-time updates via Firebase cloud database.

Optimized website structure for scalability, performance, and future payment gateway integration.
- **SGCA School Management Software (Python, SQLite, Streamlit)**

Developed a desktop ERP system for a primary school with modules for student management, fee tracking, certificates, and SMS center.

Deployed as an executable (.exe) for offline use by administrators.

- **Fake News Detection ML Project (Python, Scikit-learn)**
Implemented ML models (Logistic Regression, Random Forest, SVM TF-IDF) to classify news articles.
Achieved 80% accuracy with explain ability reports for performance metrics.
- **Olympic Story: 120 Years of History (Interactive Dashboard)**
Built a Streamlit dashboard visualizing Olympic data using Python & Plotly.
Project link: <https://www.kaggle.com/hassanrazakhattak>
Live Demo: <https://olympicsdashboardbyhassanraza051.streamlit.app/>
- **Superstore Sales Dashboard (ML Forecasting & Responsiveness)**
Created a responsive dashboard with ML forecasting models (3–12 month horizon).
Live Demo: <https://superstoredashboard-byhassanraza.streamlit.app/>
- **Bellabeat Case Study: Smart Device Data Analysis**
Conducted EDA and SQL analysis for Fitbit data to generate marketing insights.
Kaggle Link: <https://www.kaggle.com/hassanrazakhattak>
- **Anomaly Detection in Telecom Networks (ML/DL Project)**
Built ML and deep learning models for traffic anomaly detection.
Kaggle Link: <https://www.kaggle.com/hassanrazakhattak>

INTERNSHIP

Machine Learning Intern – Neuro App (Remote)

Completed a structured Machine Learning internship focusing on practical implementation of core ML concepts.
Worked on NumPy and Pandas data handling, data cleaning, feature engineering, and exploratory data analysis.
Built classification and regression models using Scikit-learn and evaluated them using standard metrics.
Developed and documented weekly ML tasks with GitHub repositories, screenshots, and README files.
Gained hands-on experience in data visualization, model persistence, and end-to-end ML workflows.

[Internship Repositories](#)

EDUCATION

Bs Computer Science- From University of Peshawar

CERTIFICATES

Google Career Certificate in Advanced Data Analytics

Google Career Certificate in Data Analytics

Project Management by Google

Machine Learning with Python by IBM

Python for Everybody by University of Michigan

Using Databases with Python by University of Michigan

LANGUAGES

English, Urdu, Pashtu