Saad Abdullah

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ABOUT ME

Data Science student with experience in data analytics, machine learning. Adept at Python, SQL, Power BI, and leveraging tools like CVAT to deliver accurate, scalable solutions. Currently working on textual data using NLP in my FYP. Eager to contribute to real-world projects, solve challenging problems, and grow as a data-driven decision-maker.

EDUCATION

Air University   Islamabad
Bachelor of Science in Data Science   **Sept. 2022 – June 2026**
PAEC Model College   Jauharabad,Punjab

ICs
Aug. 2020 – June 2022

MY EXPERTISE

- **Languages**:   C++, C, Python, SQL , R,
- **Front-End**:   HTML, CSS
- **Tools** & **Methods**:   Google Coolab, Anaconda, Power-Bi, R-Studio,Visual-Studio, Excel Cvat
- **Soft Skills:**   Remote Collaboration, Teamwork, Time Management, Problem-solving, Adaptability

WORK EXPRIENCE

- Contributed to Excelerate's data analysis initiatives by designing interactive dashboards and visual reports using Power BI and Tableau, enabling clear communication of business insights.
- Collaborated with cross-functional teams to collect, clean, and analyze large datasets using Excel and Python (Pandas), ensuring data accuracy and consistency for visualization.
- Created visual storytelling elements (KPIs, trends, filters, drill-downs) to highlight performance metrics and support data-driven decision-making across departments.

PERSONAL PROJECTS

Internship – Data Analysis & Data Engineering
Brickclay, Faisalabad — Jul 2025 – Aug 2025 (6 Weeks)

- Successfully completed internship in the **Business Intelligence (BI) department** with focus on **data analysis and data engineering**.
- Worked on **data collection, cleaning, and transformation** processes to prepare datasets for analysis.

- Applied **analytical techniques** to generate insights, supporting BI and reporting tasks.
- Assisted in building **ETL pipelines** and optimizing data workflows for efficiency.
- Developed strong skills in **SQL, Excel, and BI tools** while working in a collaborative environment.

Final Year Project: VeriResume – AI-Powered Resume Screening System

- Built an AI system for resume analysis, fraud detection, and candidate ranking.
- Developed NLP models for real-time resume feedback and optimization.
- Integrated fraud detection with AI-generated risk scoring.
- Designed dashboards for job seekers, HR, and admin roles.
- Ensured secure, scalable cloud deployment (10,000+ users, 500+ uploads/min).

Time Series Analysis of Crime Records project:

- Conducted time series analysis on crime records (FIR data) using ARIMA and Holt-Winters models to forecast crime trends.
- Preprocessed raw Urdu-language police data by converting PDFs to CSV format for analysis.
- Performed data visualization to identify crime patterns across time and locations, improving insights for law enforcement.
- Achieved improved forecasting accuracy by optimizing ARIMA parameters, reducing RMSE from 27.90 to 22.56.

Data Visualization

Performed data visualization to analyze crime patterns across time, categories, and police stations. Created visual trends showing peak crime hours and top crime categories using graphs and plots.
Applied ARIMA and Holt-Winters models for crime forecasting, improving prediction accuracy. Processed Urdu-language police data, converting PDFs to CSV for time series analysis.

Real Estate Trends in Pakistan

Conducted data mining on Pakistan's real estate data to analyze property price trends across cities and provinces.
Performed exploratory data analysis (EDA), correlation analysis, and geospatial visualization using Python and GIS tools.
Built predictive models (Linear Regression, Random Forest) to estimate property prices with evaluation metrics like RMSE.
Cleaned and preprocessed large real estate datasets, handling missing values and normalizing price and area fields.
Engineered new features such as price per square foot and encoded categorical variables to improve model performance.

Power-BI - Sales Performance Dashboard

- Designed a dynamic Power BI dashboard to track key sales KPIs such as revenue, profit margins, and customer acquisition across time.
- Integrated and cleaned data from multiple sources using Power Query, enabling accurate and unified business insights.
- Implemented slicers, drill-through features, and interactive visuals to support strategic decision-making by the sales team.

ADDITIONAL INFORMATION

Hobbies: Hiking, Walking, Card, Hockey, Podcast Watching