

**Name:**

Amna Zubair

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**Profile:**

Aspiring data science student skilled in Python, R, and C++ with hands-on experience in data analysis, predictive modeling, and application development. Strong foundation in statistical techniques, optimization, and database management.

**Education:**

Bachelor of Science in Data Science, National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad, June 2027

Relevant Courses: Introduction to Data Science, Linear Algebra, Advanced Statistics, Data Structures, Database Systems, Coal, and Fundamentals of Software Engineering

GPA: 3.13 / 4.00

**Skills:**

- Programming Languages: Python, C++
- Databases: MySQL
- Tools: Git, VS Code, Figma
- Data Analysis and Visualization
- Team Collaboration & Communication
- Languages: English, Urdu

**Projects:**

- Applied Optimization and Predictive Analytics (Python)
  - Modeled packaging efficiency using Lagrange multipliers and Python, enhancing skills in calculus-based optimization and visualization.
  - Performed data cleaning, preprocessing, and exploratory analysis on retail sales data; built regression, classification, and clustering models to generate actionable customer insights.
- Econometric Modeling and Data Analysis (R)
  - Analyzed student spending behavior using primary survey data with multiple regression and EDA techniques.
  - Forecasted Pakistan's inflation using WDI data via ARIMA, LASSO, Ridge, and Elastic Net models.
  - Gained hands-on experience in regression, regularization, and time series forecasting.
- Desktop Application Development (.NET/C and MySQL)
  - Developed patient support and event management desktop systems featuring appointment booking, scheduling, role-based access, and competition scoring.
  - Implemented advanced SQL techniques including JOINS, stored procedures, triggers, and event handling for enhanced data management and performance.

**Achievements / Extracurricular Activities:**

- Member, FAST Data Science Society — 2024–Present
- Volunteer, Pehli kiran School— 2024
- Robotics from Punjab Group of Colleges (Distinction) 2021 – 2023