**Name:**

Muhammad Abdullah Ali

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**Career Objective / Profile:**

Data Science student with hands-on experience in full-stack ETL pipeline development and machine learning. Eager to apply robust data engineering and analytical skills to solve complex problems and contribute to building impactful, data-driven solutions.

**Education:**

Bachelor of Science, Data Science, National University of Computer and Emerging Sciences (FAST NUCES), Expected August 2027

Relevant Courses: Database Systems, Data Structures, Advanced Statistics, Software Engineering

GPA: 3.67 / 4.00

Skills:

* Python, C++, SQL (T-SQL), & R
* ETL Pipeline Development & Optimization
* Data Warehousing, EDA, & Feature Engineering
* Machine Learning (Regression, Clustering)
* Database Design & Performance Tuning
* Git & GitHub for Version Control
* Agile Project Management Methodologies

**Experience / Internships:**

Data Engineer Intern, Octopus Digital (Avanceon), June 2025 – August 2025

* Assisted in engineering and optimized 7+ production ETL scripts using Python and T-SQL, reducing a key pipeline’s runtime from 20 minutes to under 7 seconds.
* Strengthened security by refactoring scripts to eliminate hardcoded credentials and authored comprehensive documentation to improve system maintainability.

Lab Demonstrator – Object-Oriented Programming, FAST-NUCES, January 2025 – May 2025

* Mentored 35+ students in advanced C++ concepts, including polymorphism, inheritance, and STL, leading to improved student performance.
* Evaluated over 280 lab assignments against rubrics and proctored practical examinations for two lab sections.

**Projects / Research:**

Inflation Forecasting Engine, Spring 2025

Short description: Developed and benchmarked multiple models (ARIMA, Ridge, Lasso, Elastic Net) in R to forecast monthly inflation in Pakistan, identifying Elastic Net as the most performant predictor based on MSE and R² metrics.

Bracketeer – Tournament Management System, Spring 2025

Short description: Co-developed a C# .NET desktop application for managing competitive tournaments. Personally architected and implemented the notification system, match logic, and a predictive module using Agile practices.

**Achievements / Extracurricular Activities:**

* Dean's Honor List — 4x Recipient (2023 – 2025)
* Programming Competition Participant: Devathon (2024), NASCON (2025)
* Community Volunteer: WWF-Pakistan Water Conservation Initiative — 2025