**Abdullah Imran**

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**EDUCATION**

**University of Management and Technology** Lahore, PK

Bachelor’s in Information & Technology (BSIT) 2021-2025 (ongoing)

* Cumulative GPA: 3.69/4.0
* Relevant Coursework: Machine Learning, Database Administration & Management, Web Technologies, Probability & Statistics, Linear Algebra, Calculus & Analytical Geometry

**Government College University** Lahore, PK

Intermediate in Computer Science (ICS) 2019-2021

**SKILLS**

**Programming Languages:** Python, SQL, HTML, CSS, JavaScript

**Data Analytics & Machine Learning:** Excel, Tableau, Python (NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, Keras), SQL (CTEs, subqueries, procedures, aggregate & window functions)

**Additional Technologies:** Databases (MS SQL Server, MySQL), Git/GitHub, Requirement Analysis & Documentation

**PROJECTS**

**1.** [**Data Analyst Portfolio Project (Data Analysis)**](https://github.com/poetabdullah/Data-Analysis-Portfolio-Project.git)**:**

* Conducted data analysis of over **150,000** records spanning movies, housing, and COVID-19 to uncover insights into budget-gross earnings correlations and housing trends.
* Leveraged **Python** for analysis and **SQL** for data enhancement (date conversion, null value imputation, normalization), using advanced techniques (CTEs, joins) and **Tableau** for impactful visualizations.
* Delivered actionable insights, including a **0.75** correlation between movie budgets and earnings, enhanced housing data quality, and a Tableau dashboard highlighting a **2.11%** global death rate for public health guidance.

**2.** [**Paper Defect Detection and Classification (Machine Learning)**](https://github.com/poetabdullah/Paper-Defect-Detection-and-Classification.git)**:**

* Developed high-performing machine learning models to classify paper defects in a dataset of **1,500+** images, achieving up to **99%** accuracy.
* Leveraged Scikit-Learn and CV feature engineering techniques (e.g. Gabor filters, wavelet transforms) to enhance defect detection by **8%** and improve model performance by **17%** using SMOTE and RUS for class imbalance.
* Engineered a Voting Classifier ensemble (SVM, Logistic Regression, Naive Bayes) with **81%** accuracy and implemented automated defect localization, delivering insights into optimizing quality control.

**3.** [**Airport Database Management System (Database Management & Administration)**](https://github.com/poetabdullah/Airport-Database-Project.git)**:**

* Engineered a robust Airport Database Management System to transform operational workflows and enhance data accuracy for airport operational workflows.
* Designed a comprehensive architecture with **15+ 3NF** normalized tables, a detailed ERD, and role-based access control for **4** user types, implementing **5** stored procedures, triggers, and complex SQL views to automate key operations.
* Established a robust backup and recovery strategy with full, differential, and transactional backups, achieving a **6-hour RTO** and enhancing performance through clustered and non-clustered indexing.

**CERTIFICATES**

[IBM Big Data Foundations - Level 2](https://www.credly.com/badges/3071a769-e66a-4bf9-af26-4e0b0d36180b/public_url) August 2, 2024

[IBM Applied Data Science with Python - Level 2](https://www.credly.com/badges/3a1346c7-7016-41d2-a044-a35f3dbd0aeb/public_url) August 7, 2024

[IBM Building AI Solutions Using Advanced Algorithms and Open Source Frameworks](https://www.credly.com/badges/b0083d42-2312-43de-9bb1-635b54521e39/public_url) August 12, 2024

[IBM Deep Learning](https://www.credly.com/badges/072401d3-a451-40b3-a865-a2f79787b269/public_url) August 21, 2024