KHIZAR AQIL

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PROFILE

I am a Third-Year Applied Statistics student with a strong focus on **data analytics**, **data visualization**, and **business intelligence**. Experienced in building **Power BI dashboards** and analyzing large, real-world datasets, including aviation safety data aligned with **ICAO standards**. Currently completing the **Google Data Analytics Professional Certificate**.

EDUCATION

University of Toronto Mississauga <div align="right">Mississauga, ON</div>
HBSc in Applied Statistics, Minors: Mathematics and Geospatial Data Science <div align="right">*Sep. 2023 – May. 2027*</div>

COURSEWORK EXPERIENCE

Statistical Analysis & Predictive Modeling

- Applied **statistical inference**, **regression analysis**, and **probability modeling** to analyze real-world datasets, using **RStudio** for **data cleaning**, **exploratory data analysis**, and **predictive modeling**, including model fitting, validation, and interpretation of analytical results.

Data Analysis & Quantitative Reasoning

- Developed strong **quantitative reasoning** skills to analyze structured datasets, evaluate uncertainty, and translate statistical outputs into **clear, data-driven insights** suitable for reporting, visualization, and decision-making contexts.

Mathematical Foundations for Data Science

- Applied **linear algebra** and **multivariable calculus** concepts, including **vector spaces**, **eigenvalues**, **linear transformations**, and optimization principles, to support analytical modeling, while developing rigorous **logical reasoning** and **proof-based thinking** for complex problem solving.

ACADEMIC ACHIEVEMENTS

- Merit-Based Entrance **Scholarship** at UTM (First Year), **CAD $3000**.
- Earned **9 A*s and As** in IGCSE O-Levels; awarded **academic scholarship** at Nixor College, Karachi.

PROJECTS

Python Projects: Software System Design

- Built a **Python-based** mobile service company framework using **object-oriented** programming, working with **JSON-formatted** call records to visualize calls made and received across a Toronto map. Implemented **location-based filters** to **analyze call activity** by area, Customer ID, and connection type and used **Pygame** to **visualize calls** made and received by customers. Utilized **customer billing logic** to generate detailed invoices from call data.

ICAO-Aligned Domestic Commercial Aviation Safety Analytics — Power BI, Excel *Ongoing*

- Analyzing **30+ years of Transport Safety Bureau (TSB) domestic commercial aviation data (123,532 Events and Phases)** to assess aircraft reliability, hazardous weather exposure, engine-related failures, and operational safety risk in accordance with **ICAO safety standards**. The dataset has been **cleaned and validated using industry-standard Excel practices**, and **Power BI dashboards are being developed** to visualize reliability metrics, incident frequency, and safety trends across aircraft families and phases of flight for **evidence-based safety assessment**.

CERTIFICATIONS & COURSES

Google Data Analytics Professional Certificate — Coursera *Ongoing*

TECHNICAL SKILLS

- **Languages:** Python, PowerBI, Excel, MySQL, SQLite, Sharepoint, R, React, CSS, Next.js, Node.js
- **IDEs:** PyCharm, VSCode, RStudio, MySQL Workbench, Git/GitHub
- **Libraries:** math, random, collections, typing, unittest, doctest, sys, os, matplotlib, numpy, pandas