

Muhammad Fahad

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SKILLS SUMMARY

- **Data Analysis & Visualization** - Experienced in analyzing large and complex datasets using mathematics and statistical techniques in Excel, Python, and Power BI. Passionate about transforming data into clear, impactful stories through dashboards and visualizations, empowering stakeholders to make informed decisions. Hands-on experience with SaaS platforms for data analytics and automation, improving efficiency and scalability in business processes.
- **Communication and Teamwork** – Strong communication skills in presenting complex technical data as clear, actionable insights for non-technical audiences. Excels in collaborative environments, working with cross-functional teams to drive impactful results.
- **Technical** - Hands-on experience with a wide range of tools and technologies, including VB, VBA, Tableau, Power BI, R, Microsoft Office Suite (Project, Access, Excel, Word, PowerPoint, and Outlook), SQL, Python, Java, and RapidMiner, enabling effective problem-solving and project execution.

EDUCATION

Haskayne School of Business, University of Calgary

September 2022 - Present

Bachelor of Commerce, Business Analytics, Computer Science Minor, Co-op

Calgary, Alberta

- Achievements: President for Indonesian Student Society (2024), Jr Executive for Actuarial and Data Science Society (2024), Digital Innovation Case Competition (2023)

Extra Certifications: SQL – MySQL for Data Analytics and Business Intelligence (Udemy, December 2023), CS50p – Introduction to Python (Harvard, August 2023), Google Analytics for Beginners (Google Analytics Academy, March 2023)

WORK & VOLUNTEER EXPERIENCE

Jr. Executive – Data Science

September 2024 – Present

Actuarial and Data Science Society

Calgary, Alberta

- Planned and executed 3+ data science workshops and networking events, engaging over 50 students and increasing participation in the club by 30%.
- Developed resources for students interested in actuarial science and data analytics, improving accessibility to learning materials by 40%.

President

August 2024 – Present

Indonesian Student Society (PERMIKA Calgary)

Calgary, Alberta

- Elected as President based on a strong track record of leadership and commitment as Events Director, focused on expanding the club's reach and fostering a supportive Indonesian student community.
- Grew membership by 120% through engaging student events, cultural initiatives, and strategic outreach efforts.
- Increased club revenue by more than 200% through fundraising campaigns, sponsorships, and high-impact events, ensuring long-term financial sustainability.
- Supported the organization of "Indonesian Festival: Beyond Borders" under the direction of the main Indonesian organization, contributing to its success in attracting over 1,500 attendees and establishing it as the largest Indonesian festival in Canada. Played a key role in showcasing Indonesian culture through performances, food, and interactive experiences.

PROJECTS

Predictive Analysis on Jakarta's Pollution | JupyterLab, Python (pandas, NumPy, matplotlib, seaborn, sklearn)

January 2025

Goal: Leverage data analysis and predictive modeling to identify key pollution contributors and explore potential data-driven solutions to mitigate Jakarta's air pollution. **On-Going Project.**

- Retrieved and cleaned a **5000+ row dataset** from Kaggle, addressing **10% missing values**, standardizing formats, and translating categorical variables into English for analysis.
- Conducted **Exploratory Data Analysis (EDA)** using visualizations like box plots and histograms, identifying **6 major pollutants** responsible for **80% of air quality deterioration**.
- Trained and validated predictive models with a 70/30 train-test split, evaluating performance using confusion matrices and refining parameters for accuracy.

Calgary Crime Rate Predictive Analysis | Python, Microsoft Excel, RapidMiner

December 2024

- Collected and cleaned **10,000+ records** from Calgary's official crime database, consolidating crime types into a **single risk metric**, reducing dataset complexity by **40%**.
- Organized and exported the dataset to CSV, then used **RapidMiner** to explore trends and patterns through **Exploratory Data Analysis (EDA)**.
- Tested different predictive models and found **Decision Tree** and **k-Nearest Neighbors (kNN)** to be the most accurate, with the lowest RMSE.

Video Game Sales Visualization | Excel, Microsoft PowerBI

December 2024

- Analyzed **10+ years of sales data** across **5 major gaming platforms**, identifying that **action and shooter games accounted for 60% of total sales revenue**.
- Conducted **EDA on 500,000+ sales records**, uncovering North America led global sales with a **45% market share**, while Japanese RPGs saw a **20% growth in demand**.

EXTRACURRICULAR ACTIVITIES

- Play in Calgary United Soccer Association (CUSA) leagues during my free time, enjoying the game while building teamwork, discipline, and a strong sense of community.