

Izan Khan

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Mathematics & Statistics student at McMaster University with hands-on experience in SQL, R, Python, Machine Learning, Tableau, Power BI, and GCP (BigQuery). Proven ability to gather, clean, analyze, and visualize data to support data-driven decision-making. Seeking an Analyst or Data Science role where I can apply a strong quantitative foundation to deliver business insights and build predictive models.

EDUCATION

McMaster University

Honours B.Sc. — Mathematics & Statistics (Fourth year), Minor in GIS

Hamilton, ON
May 2023 – Present

- Relevant Coursework: Calculus I–IV, Linear Algebra I–II, Scientific Computation, Statistics, Data Science I–II

University of Guelph

Honours B.Comm. — Management: Economics & Finance (1 term, transferred)

Guelph, ON
Sept – Dec 2022

EXPERIENCE

Analytics Intern

Tolmar Inc. (Pharmaceutical)

Remote
Sept 2026 – Present

- Query and transform commercial datasets of roughly 300,000 rows using SQL and Azure Synapse Analytics to support ad-hoc analysis that informs strategic decision-making
- Build and maintain Power BI reports that turn raw data into decision-ready insights for cross-functional stakeholders, and support the team's transition from Power BI to Tableau
- Develop presentations and master templates that communicate analytical findings clearly to non-technical business partners

Web Designer

Self-Employed

Milton, ON
Jan 2021 – May 2022

- Designed and developed responsive client websites using HTML, CSS, and JavaScript, managing client relationships independently from requirements through delivery

PROJECTS

Multi-Department Revenue Analysis & Dashboard | SQL, Power BI

2026

- Queried and cleaned 6 years of revenue data (2017–2022) from a public Kaggle department-store dataset using SQL, identifying a peak revenue year in 2018 followed by consistent year-over-year decline
- Built an interactive Power BI dashboard visualizing department-level revenue trends for cross-unit performance comparison

Credit Card Fraud Detection | Python: scikit-learn, imbalanced-learn, Seaborn

2026

- Built a Random Forest classifier to detect fraudulent transactions across 284,807 records, achieving an AUC-ROC of 0.9731
- Addressed severe class imbalance (0.17% fraud) using SMOTE, improving detection of the minority class
- Evaluated performance using precision (0.85), recall (0.84), and AUC-ROC, correctly catching 82 of 98 fraud cases in the test set

Ontario Hotel Performance EDA (2020–2023) | pandas, Matplotlib, Seaborn

2026

- Analyzed occupancy, ADR, and RevPAR trends across 20+ Ontario regions using Ontario open data, finding Downtown Toronto had the largest COVID occupancy recovery (48.4 pp) from 2020–2023
- Found a weak positive correlation (0.36) between occupancy rate and ADR, suggesting pricing and demand are largely independent across regional markets

Image Classification with Pre-Trained ResNet50 | Python: PyTorch, torchvision

2026

- Built an image classifier using transfer learning with a pre-trained ResNet50 model, classifying images into 1,000 object categories via an end-to-end inference pipeline
- Implemented preprocessing, evaluation, and inference logic, deployed as a live web demo on Hugging Face returning top-5 confidence scores

TECHNICAL SKILLS

Data & Analytics: SQL, Excel, R, Tableau, Power BI (DAX, Power Query), Azure Synapse Analytics, GCP (BigQuery)

Python & Machine Learning: Pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn

Other: Git, JavaScript, HTML/CSS, Microsoft Office

Certification: Google Data Analytics Certificate

VOLUNTEER EXPERIENCE

Peer Mentor

Math & Stats Society, McMaster University

Hamilton, ON
Sept 2026 – Present

- Mentor students on coursework, program and specialization selection, and general guidance navigating university

McMaster Science Student Ambassador

Faculty of Science, McMaster University

Hamilton, ON
Sept 2026 – Present

- Represent McMaster University and the Faculty of Science to prospective students, helping them understand program and university fit

Youth STEM Volunteer

Mathstronaut's Spark Program

Hamilton, ON
May 2026 – June 2026

- Supported instructors delivering numeracy-focused workshops for Grade 3–5 students in partnership with Hamilton Regional Indian Centre, YMCA Beyond the Bell, and Hamilton Public Library