MUSAIB NAGANI

📞 226-345-7861 | ✉ naganim01@gmail.com | 🔗 linkedin.com/in/musaib-nagani | ⊙ github.com/MusaibNagani

SUMMARY

- **2+ years of experience** in AI, data analytics, and machine learning projects with academic and professional impact.
- Proficient in **Python, SQL, PyTorch, Scikit-learn, Power BI**, and ETL pipelines; strong foundation in data-driven decision making.
- **Board Member (UWSA)** representing 2,000+ students, known for leadership, collaboration, and student advocacy.
- Demonstrated success in developing **ML models, dashboards**, and data solutions to improve performance and clarity.

EXPERIENCE

AI/ML Researcher
Jan 2024 – Dec 2024
University of Windsor
Windsor, ON

- Engineered a geometric algorithm to defend against **k-NN poisoning attacks**, improving model robustness by **18%**.
- Built ML models using **Python, PyTorch, Scikit-learn**, achieving **86% accuracy** on classification tasks.
- Automated preprocessing workflows using Linux scripting, reducing model training time by **30%**.

Teaching Assistant
Jan 2022 – Dec 2024
University of Windsor
Windsor, ON

- Led tutorial sessions for 100+ students in **AI, Python, and Web Development**.
- Evaluated over 500 assignments and exams with 98% review accuracy.
- Conducted weekly office hours, solving student queries and debugging code.

Data Analyst
Jan 2021 – Feb 2022
Wedding Co
Remote

- Reduced inventory overstock by **20%** and improved turnover by **15%** through data analysis.
- Built SQL dashboards and automated reports to support merchandising decisions.
- Maintained AWS-based **ETL pipelines**, improving monthly report generation speed by **40%**.

EDUCATION

Bachelor of Computer Science Honours
Jan 2021 – Dec 2024
University of Windsor
Windsor, ON

- Specialization in **Artificial Intelligence**, Minor in Mathematics, CGPA: **3.7/4.0**
- **Dean's Honour Roll** and **LEAD Gold Medallion** recipient.

PROJECTS

Cloud Sales Analytics Pipeline (GitHub) | *Python, GCP, BigQuery, Looker Studio*
May 2024 – Aug 2024

- Designed a scalable ETL pipeline to analyze sales data using **GCP Cloud Storage, Dataflow, and BigQuery**.
- Performed data cleaning and transformation in Python and orchestrated jobs with **Cloud Composer (Airflow)**.
- Created interactive dashboards in **Looker Studio** to provide business insights across regions and products.

Single Cell RNA Sequencing (GitHub) | *GNN, PyTorch*
Jan 2024 – Apr 2024

- Built **Graph Neural Networks (GCN/GAT)** to classify cell types using scRNA-seq.
- Improved clustering accuracy by **22%** through dimensionality reduction (UMAP/t-SNE).
- Collaborated with researchers to validate results on real gene expression data.
- Optimized data pipeline for faster training by integrating PyTorch Dataloaders with gene matrix preprocessing.

Fraud Detection Simulation Platform (GitHub) | *Python, SQL Server, Power BI*
Jan 2025 – May 2025

- Developed an end-to-end fraud detection system simulating real-world banking data using **Python, Faker, and MSSQL**.
- Engineered **velocity and behavioral fraud features** including transaction bursts, IP/device shifts, and dormancy periods.
- Built a Power BI dashboard visualizing fraud KPIs, risk scores, and suspicious patterns with slicers and DAX-based flags.

EXTRACURRICULAR ACTIVITIES

Board of Director, UWSA
May 2023 – Apr 2024
University of Windsor
Windsor, ON

- Represented over **2,000 Computer Science** students, advocating for academic and financial interests.
- Participated in the **Finance Committee**, influencing budgetary decisions.

Head of Events
May 2023 – Apr 2024
Computer Science Society
Windsor, ON

- Planned and executed **Hackathons, Workshops, Gala Nights**, reaching 1,000+ attendees.