

# MUSAIB NAGANI

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## 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

University of Windsor

Jan 2024 – Dec 2024

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

University of Windsor

Jan 2022 – Dec 2024

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

Wedding Co

Jan 2021 – Feb 2022

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

University of Windsor

Jan 2021 – Dec 2024

Windsor, ON

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

## PROJECTS

### 🔗 Default of Credit Card Clients | Python, ML, Azure

May 2024 – Aug 2024

- Built a model pipeline to predict credit default with **87% accuracy**.
- Applied feature selection, logistic regression, and ensemble models for improvement.
- Created visualizations to identify customer segments at highest risk.

### 🔗 Single Cell RNA Sequencing | 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.

### 🔗 WDI Dashboard | Power BI, DAX

Apr 2025 – May 2025

- Built **interactive dashboard** visualizing electricity access, CO2 emissions, clean fuel.
- Created dynamic **DAX measures** for KPI monitoring and trend analysis.
- Reduced refresh time by 50% through efficient data transformation and model design.

## TECHNICAL SKILLS

**Languages:** Python, SQL, Java, JavaScript, HTML, CSS, C, Prolog

**Frameworks & Tools:** Git, Linux, ReactJS, PyTorch, Keras, Scikit-learn

**Data & Cloud:** Power BI, Tableau, Data Bricks, DAX, Pandas, NumPy, ETL Pipelines, Data Visualization, AWS, Azure

**Soft Skills:** Communication, Problem-Solving, Leadership, Time Management

## EXTRACURRICULAR ACTIVITIES

### Board of Director, UWSA

University of Windsor

May 2023 – Apr 2024

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

Computer Science Society

May 2023 – Apr 2024

Windsor, ON

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