

MUSAIB NAGANI

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SUMMARY

Computer Science graduate specialized in **Artificial Intelligence** with robust skills in **data analysis**, **SQL**, and **Python**. Proven in designing **analytical solutions**, creating **visualizations**, and driving **process improvements** to support **risk assessments** and **compliance** initiatives.

EXPERIENCE

AI/ML Researcher

University of Windsor

Jan 2024 – Dec 2024

Windsor, ON

- Designed and implemented a geometric algorithm for **k-NN poisoning attacks**, ensuring data integrity.
- Developed machine learning solutions using **Python**, **PyTorch**, and **scikit-learn** to optimize performance metrics.
- Automated ML workflows and data preprocessing using Python, scikit-learn, and Linux scripting.

Teaching Assistant

University of Windsor

Jan 2022 – Dec 2024

Windsor, ON

- Taught and provided guidance in **AI**, **Python**, and **Web Development** courses.
- Evaluated assignments, projects, and exams for 100+ students ensuring fairness and accuracy.
- Conducted weekly office hours, helping students with complex coding and theoretical concepts.

Data Analyst

Wedding Surat

Jan 2021 – Feb 2022

Remote

- Performed comprehensive **data analysis** on sales and inventory, reducing overstock by **20%** and improving inventory turnover by **15%**.
- Developed custom **dashboards** and reports using **SQL** to drive data-driven decision-making.
- Built and maintained **ETL pipelines** leveraging **AWS** services for efficient data transformation.

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**
- Dean's Honour Roll** and **LEAD Gold Medallion** recipient.

PROJECTS

🔗 Default of Credit Card Clients | Python, Machine Learning, Azure

May 2024 – Aug 2024

- Developed a **classification model** to predict defaults, enhancing accuracy with **feature selection** and **data preprocessing**.
- Created interactive **visualizations** and performed **statistical analysis** on client data.
- Optimized model performance using **Logistic Regression**, **Random Forest**, and **SVM**.

🔗 Single Cell RNA Sequencing | Python, Scikit-learn, PyTorch, GNN, GAT

Jan 2024 – Apr 2024

- Developed a **machine learning pipeline** to analyze high-dimensional **single-cell RNA sequencing (scRNA-seq)** data, enhancing understanding of **cellular heterogeneity**.
- Built and trained **Graph Neural Networks (GNNs)**, including **Graph Convolutional Networks (GCN)** and **Graph Attention Networks (GAT)**, for modeling complex cellular interactions.
- Applied **dimensionality reduction techniques** such as PCA, t-SNE, and UMAP to effectively visualize gene expression data at a single-cell level.

🔗 Business Intelligence Reports with Power BI

May 2024 – Aug 2024

- Developed **Power BI dashboards** integrating sales and customer data from SQL databases.
- Designed DAX measures to perform **trend analysis** and **KPI monitoring**.

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML5, CSS, C/C++, TypeScript, Prolog

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

Data Analytics, BI: SQL, Power BI, Pandas, NumPy, ETL Pipelines, Data Visualization

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.
- Contributed to key financial decisions as part of the **Finance Committee**.

Head of Events

Computer Science Society, University of Windsor

May 2023 – Apr 2024

Windsor, ON

- Organized **Hackathons**, **Coding Competitions**, **Workshops**, and **Gala's**, engaging over **1,000+ students**