ALI NAQVI

Toronto, CA 647 – 997 – 0548 │naqvia18@mcmaster.ca

EDUCATION

McMaster University	Hamilton, CA
Master of Science	**Expected Aug 2025**

- *Relevant Coursework*: Evolutionary Computation, Neural Networks with Graphs

University of Windsor	Windsor, CA
Bachelor of Computer Science with Distinction	**June 2023**

- Specialization in Artificial Intelligence and Minor in Mathematics
- *Awards*: LEAD Gold Medallion Recipient
- *Relevant Coursework*: Neural Network and Deep Learning, Design and Analysis of Algorithms, Linear Algebra

EXPERIENCE

Staccato, *AI/ML Development Co-op* **2025 - Present**

- Conducting research on **transfer learning** to enhance model generalization across diverse datasets.
- Developed and optimized **cloud-based retrieval systems** to improve data access and processing efficiency.
- Worked with large-scale datasets, focusing on **data preprocessing, feature extraction, and storage solutions** for AI applications.

McMaster University, *Graduate Teaching Assistant* **2023 - 2025**

- **Courses**: Signals and Systems, Concurrent Systems, Computer Graphics.
- Led weekly tutorial sessions and managed lab activities for courses, each with an enrollment of **over 200 students.**
- Assisted in marking and holding office hours.

Glendor Inc, *ML Research Intern* **2023**

- Conducted research on PDF processing and analyzed sensitive medical data using various techniques.
- Successfully implemented various techniques to extract and analyze important data from PDFs, leading to more efficient data processing.
- Evaluated BERT deidentification models on medical data, including the Stanford deidentification base model and models trained on the i2B2 dataset.

University of Windsor, *Teaching Assistant* **2022 - 2023**

- **Courses**: Operating Systems, Key Concepts in Computer Science, Programming for Beginners, Social Media & Mobile Tech.
- Responsible for lab instruction, marking, and holding office hours for **over 100 students.**

PUBLICATIONS

- Naqvi, A., & Kelly, S. (2024). *Towards Evolving Creative Algorithms: Musical Time Series Forecasting with Tangled Program Graphs*. ALIFE.
- Djavaherpour, T., Naqvi, A., et al. (2024). *Optimizing Memory Strategies for Indexed Memory Efficiency in Tangled Program Graphs*. ECTA.
- Kelly, S., Naqvi, A., et al. (2024). *Evolving Many Models*. GPTP XII.

PROJECTS

Sequential Recommendation System **September 2022 – March 2023**

- Modelled a sequential dynamic movie recommendation system using Deep Reinforcement learning.
- System allows multiple users and gives users new recommendations based on their selections.
- Created using **Python, JavaScript, TensorFlow, Flask, ReactJS**

Google Landmark Analysis **November 2022 – December 2022**

- Designed a Shifted Window Transformer model to tackle the Google Landmark data consisting of over two hundred thousand distinct location classes used for sorting five million distinct images.
- Compared and researched top submissions where factors such as sub-center ArcFace margin loss were studied.
- Created using **Python, TensorFlow, NumPy, Pandas**

SKILLS

Programming: Python, Java, JavaScript, HTML/CSS, C, SCSS, SQL
Technologies: ReactJS, Linux, Git, Bootstrap
Machine Learning: Scikit-learn library, TensorFlow, Pandas, NumPy