ALI NAQVI

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EXPERIENCE

Teaching Assistant

McMaster University

September 2023 – April 2024

Courses: 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.

ML Research Intern

Glendor, Inc

January 2023 – April 2023 | Remote

- 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.

Teaching Assistant

University of Windsor

January 2022 – April 2023 | Windsor, ONT

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.

Student Assistant Teacher

Lyceum Learning Center

March 2019 – July 2019 | Milton, ONT

- Assisted in instructing key concepts from courses such as functions, advanced functions, and calculus.
- Facilitated students' understanding of courses and improved their methods of studying.

SKILLS

PROGRAMMING: Python, Java, JavaScript, HTML/CSS, C, SCSS, SQL
TECHNOLOGIES: ReactJS, Linux, Git, Bootstrap
MACHINE LEARNING: Scikit-learn library, TensorFlow, Pandas, NumPy

EDUCATION

Master of Science

McMaster University

September 2023 – April 2025 | Hamilton, ONT

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

Bachelor of Computer Science (Honors)

University of Windsor

Sept 2019 – April 2023 | Windsor, ONT

- **Relevant Courses:** Neural Network and Deep Learning, Design and Analysis of Algorithms, Linear Algebra

PROJECTS

Sequential Recommendation System

September 2022 – March 2023

- Modeled 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

Medical Document Pipeline

January 2023 – April 2023

- Designed a sensitive patient/hospital information filtering system using BERT deidentification models.
- System exports the PDF usable for hospitals.
- Created using Python

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

Comparative Analysis of Convolutional Neural Networks

September 2022 – October 2022

- Designed and implemented a CNN architecture on the MNIST dataset using TensorFlow and NumPy.
- Achieved an accuracy of 99.45% on the dataset.