**Sagarjit Aujla**

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**PROFESSIONAL SUMMARY**

Results-driven data scientist with over 3 years of experience working with machine learning to solve complex problems. Proven track record of developing algorithms for disease detection using machine learning and computer vision. Skilled in Python, SQL, C++, and C for machine learning, data analysis, and software development.

**EDUCATION**

**Toronto Metropolitan University (formerly Ryerson University)** Toronto, ON

Master of Applied Science Sept. 2020–Jan. 2023

* Research focus: Machine learning, deep learning, and image processing

Bachelor of Engineering Sept. 2016–April 2020

* Focus: Software Development, Signal Processing, Image Processing

**TECHNICAL SKILLS**

* Tools: Python, SQL, C, C++, MATLAB, Git, GitHub, SPSS, Excel
* Python Frameworks: Pandas, TensorFlow, Keras, Pytorch, Numpy, Scikit-Learn
* Certifications: Azure AI Fundamentals (Microsoft)

**RELEVANT WORK EXPERIENCE**

**Toronto Metropolitan University**, Biomedical Image and Signal Processing Lab (BISPL) *Toronto, ON*

Machine Learning Research AssistantJune 2023–Present

* Developed ECG data processing and machine learning algorithms to detect signs of arrhythmia.

**Exact Imaging**  *Markham, ON*

Software Development InternOct. 2022–June 2023

* Implemented deep learning model using **TensorFlow** in **Python** to automate prostate segmentation.
* Automated processing and analysis of clinical trial data using **C** and MATLAB to reduce errors and reduce the overall cost of the trial.
* Improved data processing algorithms in **C** resulting in 70% faster data loading.
* Familiar with ISO 13485 standards and regulations pertinent to Medical Device Quality Systems compliance.

**Mount Sinai Hospital** *Toronto, ON*

Machine Learning Research Assistant May 2020–Jan. 2023

* Designed feature extraction-based image classification algorithms in **Python** and MATLABfor disease detection.
* Built a GUI and data processing algorithms to automatically de-identify ultrasound videos and remove unwanted imaging artifacts.
* Automated object detection and tracking of lung ultrasound signs in ultrasound images using the DeepSORT and YOLOv4 algorithms.

**RELEVANT COURSES**

Machine Learning, Multimedia Processing, Neural Networks, Statistics, Biomedical Image Analysis, Biomedical Signal Analysis