Yash Matharu

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EDUCATION

McMaster University

Hamilton, ON

B.Eng Electrical and Biomedical Engineering (Co-op) | GPA 4.0

Sept. 2020 - EXPECTED 2025

Awards Dean's Excellence Scholarship (\$7,500), TC Energy Community Leaders Scholarship (\$2,500) **Relevant Courses** Data Structures and Algorithms, Principles of Programming, Circuits and Systems

SKILLS.

Languages Python, C, Javascript, HTML/CSS, MATLAB

Machine Learning Tensorflow, Keras, Numpy, Pandas, Scikit-learn, Seaborn, Matplotlib

Web Development React.js, Node.js/Express.js, MongoDB, Firebase, Bootstrap

Tools Git, Jupyter, Colab, Figma

EXPERIENCE

Research Assistant, Deep Learning

Hamilton, ON

McMaster University

May. 2021 - Aug. 2021

- Developed deep convolutional neural networks to classify 10 different algae cells in drinking water
- Used transfer learning and fine-tuned pre-trained image classifier models resulting in 85% test accuracy with 150 images in dataset
- Implemented object detection algorithms to accurately detect pathogenic cysts in real-time for water treatment **Languages/Tools:** Python, Tensorflow, Keras, Jupyter

Innovator | C Toronto, ON

THE KNOWLEDGE SOCIETY (TKS)

Aug. 2020 - Jan. 2021

- Researched and learned about next-gen topics such as Artificial Intelligence and Blockchain
- · Consulted for MIT non-profit organization, Pathcheck, to develop user acquisition strategies in new locations

Road Tour Crew Member

Hamilton, ON

CAMP 31

Jun. 2019 - Sept. 2021

- Communicated effectively with 100+ customers each day regarding orders, comments and any complaints
- Fulfilled customer orders in a timely manner to maintain high standards of customer service

PROJECTS

Kaggle Competitions | 🖸 🗘

Aug. 2021

• Competed in multiple Kaggle competitions using data science and ML tools

Languages/Tools: Python, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras

RPi Autonomous Car | 🔾

Present

• Building an autonomous car capable of detecting garbage and picking it up to move to another location **Languages/Tools:** Python, Tensorflow Lite, OpenCV

YelpCamp | 🗗 🗘

- Developed a website which displays campgrounds in the area and their information such as, prices, location, reviews and description
- Utilized multiple APIs to add different features such as the Google Maps API

Languages/Tools: Javascript, Node.js, Express.js, MongoDB

EXTRACURRICULARS

Product Manager | 🗷 🔾

Hamilton, ON

DSC McMaster Dec. 2020 - Feb. 2021

- Led a team of developers, business analysts, and designers to create award-winning vaccination tracking application
- Conducted 15+ user interviews to gain an in-depth understanding of challenges within healthcare

Languages/Tools: React Native, Firebase

Student Ambassador

Hamilton, ON

McMaster University - Faculty of Engineering

Sept. 2020 - Sept. 2021

- Engages with students and families at school events to encourage students to pursue careers in engineering
- Speaks at recruitment events and panels to 400+ prospective students about McMaster Engineering