SEAN SOMOGYVARI

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SKILLS

Software:

- MATLAB
- Python
- C/C++
- R
- LaTeX

Soft Skills

- Problem Solving
- Time Management
- Interpersonal Communication
- Collaboration and Active Listener
- Strong Observational Skills

PROJECTS

Convolutional Neural Network for Classifying Vehicle Make and Model

- Convolutional neural network in python using Keras with TensorFlow backend for classifying images of vehicles in the Stanford Cars Dataset.

EYESPY eye tracking robot

- Designed and assembled an autonomous eye-tracking robot using two Raspberry Pis and three TI microcontrollers.

Comparison of Supervised/Unsupervised Analysis of the SDSS

- In depth analysis of the Sloan Digital Sky Survey (2014) including a comparison of model-based clustering, mixture discriminant analysis and a cross validated neural network in R.

EDUCATION

Master of Engineering, Electrical and Computer Engineering   **Feb 2019**
McMaster University, Hamilton ON

- Specialization in machine learning and data science theory related to electrical and computer engineering.

Bachelor of Engineering, Engineering Physics   **May 2016**
McMaster University, Hamilton ON

EXPERIENCE

Lead Python Developer   **July 2019 - Present**
ATEQ Canada Inc., Mississauga ON

Spearheaded the development of a complete automation system for the purpose of calibrating ATEQ industrial pressure/flow/leak testing equipment.

- Development in Python to control embedded systems used to automate a series of regulators and valves for the purpose of calibrating a wide series of industrial pressure instruments.
- Design and production of a PCB containing solid-state devices for controlling the regulators and valves, and housing appropriate sensors.
- Developed a user-friendly GUI allowing easy operation of the system using PyQt5.

Machine Learning Developer Volunteer   **May 2019 – July 2019**
Prepr, Mississauga ON

- Research in cutting edge NLP methodologies for the purpose of developing an AI for auto-grading Prepr assignments/challenges.
- Development of collaborative filtering for recommending Prepr challenges based on skills.

Technical Sales & Project Coordinator   **May 2017 - Dec 2017**
M Con Pipes and Products, Ayr ON

- Communicated with contract engineers regarding projects
- Analyzed project drawings and provided accurate quotes
- Designed custom projects using Autodesk/MHpro and placed into production based on specifications

FURTHER EDUCATION

Certificate in TensorFlow for Deep Learning in Python
Udemy   **April 2019**

- DNN, CNN, RNN, and Reinforcement Learning in Python using TensorFlow

Deep Learning Specialization
deeplearning.ai, Coursera 'Specialization'   **Sept 2019**

- Five course specialization covering convolutional neural networks, sequence models. hyperparameter tuning, and structuring machine learning projects.