Parmis Mohaghegh

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Education

University of British Columbia
BASc - Engineering Physics   *Sep 2017 - May 2022 (Expected)*

Work Experience

Data Analyst and Visualizer Intern | *Thoughtexchange*   *May 2020 - Aug 2020*
- Designed and implemented a Text Classification algorithm using Natural Language Processing (NLP) to detect rude and hurtful comments.
- Implemented Text Preprocessing and Data Augmentation techniques to handle imbalanced data.
- Investigated the performance of various Deep Learning techniques (Long Short-Term Memory (LSTM), Bidirectional LSTM, Convolutional Neural Network (CNN), BERT, Transfer Learning) using Tensorflow/Keras library in Python.
- Provided an alternative solution with comparable performance to the External API used by the company and deployed the model into production.

Research Engineer Intern | *UBC Robotics and Control Lab*   *Jan 2019 - May 2019*
- Researched on innovations in Deep Neural Networks (DNN) for Ultrasound Image Segmentation.
- Collected, labeled and preprocessed a dataset of more than 5000 ultrasound images using MATLAB.
- Implemented a DNN using Tensorflow/Keras library in Python for boundary detection with high accuracy.

Technical Projects

Cmd-f 2020: Vancouver's All-female Hackathon | *Group Project*   *Mar 2020*
- Prototyped a mobile app to make physical activity more accessible to individuals who share a common goal of exercising, but may face barriers (safety, accessibility, communication).
- *Skills Gained: Java, Chatbot Development.*

UBC Autonomous Driving Competition | *Group Project*   *Sep 2019 - Dec 2019*
- Used hybrid classical control and Machine Learning algorithms to drive a robot in a simulated environment, avoid hitting obstacles, and read license plates. Placed second out of 20 teams.
- *Skills Gained: Machine Vision, Image Processing, Python, OpenCV, Keras, Linux OS, ROS, Gazebo.*

Rescue-Avengers Competition | *Group Project*   *May 2019 - Aug 2019*
- Designed an autonomous robot capable of navigating an electrical tape track, retrieving and storing small objects. Quarterfinalist out of 16 teams.
- *Skills Gained: C++, STM32, State Machine Design, Prototyping, Circuit Analysis and Debugging.*

Graph ADT Implementations | *Group Project*   *Oct 2018*
- Implemented an AI Boggle Player and a Graph Interface using Adjacency List and Adjacency Matrix.
- *Skills Gained: Java, Large Dataset Analysis, Object-Oriented Algorithm Design.*

*More information about projects can be found at www.mparmis.com

Honours

- Women in Technology Scholarship (2019), awarded to 10 exceptional female STEM students across BC and valued at $10,000

Activities/Interests

- Volunteer at City of Vancouver Women's Advisory Committee
- Aerial Arts, Piano, World Travel, Reading