Aditya Thakkar

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Skills

Coursework	Languages	Technologies
Machine Learning, Statistics, Data Structures & Algorithms, Logic Design	Python, SQL, MATLAB/Simulink, Java, C, C++, HTML/CSS, JavaScript, Assembly	Keras, Scikit-Learn, Tensorflow, Docker, NLTK, Solidworks, D3, Bootstrap

Experience

Data Science Intern — Jan – Apr 2018
Manulife — Toronto, ON

- Implementing fraud classification and natural language processing models using Python (Keras, NLTK, etc.)
- Using graph analytics methods for community clustering and centrality identification with Networkx
- Running models on distributed computing clusters using Hadoop and Spark

Information Systems Developer Intern — Sept – Dec 2017
Manulife — Kitchener, ON

- Developed front end features for consumer facing Manulife websites(Java, JavaScript, HTML/CSS)
- Built app to track insurance payments for workers in the gig economy with a team of other interns
- Created filters on Contact Us forms which stop over 100,000 spam submissions per day

Research Student (Surgical Robotics) — May – Aug 2016
Hospital for Sick Children (SickKids) - CIGITI Lab — Toronto, ON

- Wrote path planning algorithm (Kalman filter) and workspace simulation using MATLAB & Simulink
- Solved inverse kinematics problem for a 6 DOF robotic arm with MATLAB using Jacobian method
- Worked with micro-controllers and motor drivers to control motors and integrated feedback sensors

Quality Assurance Analyst Co-op — May - Aug 2015
PointClickCare — Mississauga, ON

- Wrote automated scripts to test web application scenarios in Java, JavaScript, and SQL with Selenium
- Performed stress, unit and regression testing for two development teams

Relevant Projects

Heart Disease Prediction with Random Forest Classifier |*Github Code* - goo.gl/AJw4pX

- Predicted blood vessel narrowing due to heart disease, resulted in 83% accuracy (Python, Scikit Learn)

Tensorflow Self Driving Car Image Classification Engine | *Github Code* - goo.gl/oTQQiq

- Classifies images into categories of common objects encountered by a self driving car on the road

Education

McMaster University — Expected May 2019

- Bachelor of Engineering (Co-op) – Electrical Engineering & Biomedical Engineering
- Awards: Dean's Honour List, McMaster Entrance Award

Leadership

President - Bioengineering At McMaster Society (BEAMS) — Mar 2016 – April 2017
beamsociety.ca

- Led a team of 15 executives to double student attendance at all events from past years