Aditya Thakkar

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Skills

Coursework	Languages	Technologies
Machine Learning, Artificial Intelligence for Robotics, Control Systems, Statistics, Data Structures & Algorithms	Python, Java, C, C++, HTML/CSS, JavaScript, MATLAB/Simulink, SQL, R, Assembly	Tensorflow, OpenCV, Arduino, Scikit-Learn, Pandas, Docker, Node.js, React.js, Selenium

Experience

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

- Implementing fraud detection and text analytics models using Python (Tensorflow, Scikit-Learn etc.) and R

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

- Developed front end features for Manulife.ca using Adobe Experience Manager (Java, JavaScript, HTML/CSS, XML)
- Built Node and React app to track insurance payments for workers in the gig economy
- 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) — Toronto, ON

- Designed and fabricated robotic laser etching system for pediatric cranial remodeling
- Used Solidworks to create mechanical design of system and Arduino to control the motors in the robot
- Developed path planning algorithm (Kalman filter) and workspace simulation for the system using MATLAB & Simulink
- Solved inverse kinematics problem for a 6 DOF robotic arm with MATLAB using Jacobian method
- *Project Final Presentation* - *goo.gl/DjhWQL*

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

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

Relevant Projects

Tensorflow Image Classifier for Self Driving Cars | *Github Code* - *goo.gl/oTQQiq*

- Classifies images into categories of common objects encountered by a self driving car using Tensorflow

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

- Used Scikit-Learn & other machine learning libraries to predict angiographic vessel narrowing, resulted in 83% accuracy

Education

McMaster University — Expected May 2019

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

Extracurriculars

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

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