

# Aditya Thakkar

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## Skills

### Coursework

Machine Learning, Neural Networks  
& Deep Learning, Statistics, Data  
Structures & Algorithms

### Languages

Python, SQL, JavaScript, HTML/  
CSS, MATLAB, Java, C++, C

### Technologies

Pandas, Scikit-Learn, Keras,  
Tensorflow, Django, D3, Docker,  
Simulink

## Experience

### Quantitative Research Associate Intern

May – Aug 2018

#### CIBC Asset Management

Toronto, ON

- Developing data tools to analyze market conditions make data driven investment decisions on the equity team

### Data Science Intern

Jan – Apr 2018

#### Manulife

Toronto, ON

- Wrote Bayesian network for fraudulent transaction detection with Python (Pandas, Numpy, etc.)
- Built dashboard using D3.js, Node.js and Neo4j to visualize fraud rings
- Brought data quality testing & monitoring project to from conception to production

### Information Systems Developer Intern

Sept – Dec 2017

#### Manulife

Kitchener, ON

- Developed front end features for consumer facing 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

## Relevant Projects

### Heart Disease Prediction with Random Forest Classifier | Github Code - [goo.gl/AJw4pX](https://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](https://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

- Led a team of 15 executives to double student attendance at all events from past years ([beamsociety.ca](https://beamsociety.ca))