



# AKSHAYKUMAR PATEL

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## SKILL

- Python
- R
- Machine Learning (Supervised and Unsupervised)
- Deep Learning
- Neural Networks(NN)
- Convolutional Neural Networks(CNN)
- Data Visualization
- Inferential Statistics
- Descriptive statistics
- Worked with some Deep Learning frameworks such as TensorFlow, Keras
- SQL

## EDUCATION

### Master of Engineering(MEng) / Mechanical Engineering

University of Ottawa,Ottawa,ON

Sept. 2018-Exp. Dec 2019

- Affective and persuasive Computing
- System Engineering and Integration

### Bachelor of Engineering / Mechanical Engineering

The M S University of Baroda

Vadodara, India

2012 - 2016

## CAREER OBJECTIVE

I have interest in the field of Data Science, Machine Learning, Deep Learning, Visualization and so passionate to use these technologies in various field ranging from conventional Mining, Oil and Gas exploration and production to finance, Banking, Consulting, IT. I am keen to learn new things and technologies every day.

## PROJECTS

### Face recognition

September 2019

- Worked with convolutional neural network to recognize the facial expression like smiling, Fear, Sadness, Surprise
- Was group project did convolutional structure built up and report writing

### Data Visualization

May 2019

- Compared different muscle relation in data files generated from the simulation of a model at different walking and running speed
- Played with pandas and matplotlib of python in this task
- Used scatter plot using pandas library to get to know any relationship

### Dynamic Walker Optimization

May 2019

- Optimized the initial states of a walker model to keep it from falling down
- Used cma optimization, obtained optimization in around 10second
- Built basic arithmetic function for python user in [opensim](#) python interface

Currently working on developing on serious gaming project in my  
Affective and persuasive Course

October 2019

## CERTIFICATES AND WORKSHOP

- Deep learning specialization (Coursera)
  - Neural Networks and Deep Learning
  - Hyperparameter tuning, Regularization and Optimization
  - Structuring Machine Learning Projects
  - Convolutional Neural Networks
  - Sequence Models
- Machine Learning (Coursera)
- Data Science for Engineers (NPTEL)

## VOLUNTEERING EXPERIENCE

University of Ottawa, Ottawa, ON

January,2019 -Present

Position: Makerspace Volunteer

Centre for Entrepreneurship and Engineering Design (CEED)

- Involved in Event Organization to promote the CEED like open house, tabling event, etc.
- Organized the workshop of 3D printing, Laser Cutting, Virtual Reality to educate or to operate the equipment when they came to the Facility

## OTHER WORK EXPERIENCE

Merchandise Associate | Costco, Ottawa, ON

September,2018- Present