

Aakash Moghariya

aakashpatel775@gmail.com | +1-(431)-999-8650 | [GitHub](https://github.com/aakashmoghariya) | <https://ca.linkedin.com/in/aakashmoghariya>

Education

Master of Computer Science, Big Data Program Sep'16 – Dec'17
Simon Fraser University, Burnaby, Canada School of Computing Science GPA: 3.71

- Courses: Machine Learning, Data Mining, Big Data Programming I and II, Deep Learning, NLP, Algorithms

Bachelor of Technology, Computer Science and Engineering GPA: 3.52
SRM University, Chennai, India Aug'11- May'15

Work Experience

Intern & Data Scientist, **BuildDirect Technologies**, Vancouver, Canada [Full time – Dec'17] May'17 – June'18

- Implemented neural network based (faster RCNN) model to detect and label furniture items present in an image to help customers find and explore items easily on the website.
- Built an alternative model for recommending optimal price to sellers to maximize revenues and profit margins using pyspark. Performed extensive analysis on determining flaws and enhancement possibilities in existing pricing model. Using past data proved that model recommends prices improves revenues.
- Automated Demand Forecasting predictive model and optimized it to improve time complexity of existing model using pyspark. Increased speed of model by factor 83 times compared to existing model.

Java Developer, **Manitoba Blue Cross**, Winnipeg, Canada Oct'15 – Aug'16

- Created a billing system for the newly introduced insurance product using Java to expand the business of the company and to help company gain competitive advantage in the market.
- Migrated database platform from Sybase to Microsoft SQL by modifying the hibernate queries to support SQL queries to standardize the application platform across the system and reduce the license cost.

Intern & Software Developer Engineer, **Payoda Technologies**, Coimbatore, India Jan'15 – Jul'15

- Created a service to allow F5 V10 devices (Load Balancers) to accept and execute requests concurrently by developing a partition-based system using Java and MongoDB.

Projects

- **Smart Answers [Jan'2012- May'2015]**: Collected data from various websites related to movie, weather, sports, general information and others using Python and AIML and developed a real-time question answer system like Google. Used NLP to understand user search query.
- **Sentimental Analysis of Movie Reviews [Oct'2016- Dec'2016]**: Implemented a CNN Model to classify the polarity of movie review data to be either positive or negative using Matlab. Used pre-trained GloVe word vector to improve the accuracy of the model.
- **Faster RSeaNN [Feb'17- Apr'17]**: As part of the Kaggle Competition implemented a Faster RCNN algorithm to detect location of the fish in each image and classify it. Ranked amongst top 22% of the competition.
- **MoviePedia [Oct'2016- Dec'2016]**: Implemented a CNN using Inception V3 as base model to determine genres of a movie given its poster using Keras, Tensorflow and Python.

Hackathon

- **1st Prize: Predicting Truck Haul Failures for Mining Industries**, Vancouver, Sep 2017 [Unearthed. Solutions] Delivered end-to-end product that can predict unplanned truck failures given sensor and other data.
- **2nd Prize: Improvising Dating Industry using Machine Learning**, Vancouver, Sep 2017 [POF.com] Implemented end-to-end BlindDate chat application that scores conversation based on user engagement.

Technical Skills

- **Big Data Technologies**: Spark, Hadoop
- **Server Technologies**: Apache, AWS
- **Languages**: Python, Java, C++
- **Web**: HTML, CSS, JavaScript
- **Database**: MongoDB, MySQL
- **Visualization Technology**: Tableau, R Shiny, QlikSense