

# Sreejith Sreekumar

#1, 1 Folsome Ave, Roxbury Crossing, Boston, Massachusetts, 02120

☎ 857-399-6443 | ✉ sreekumar.s@husky.neu.edu | 🏠 srjit.github.io | 📱 srjit | 📧 sreejith2904

## Education

### Northeastern University, Boston, MA

Jan. 2017 - Present

CANDIDATE FOR MASTER OF SCIENCE IN DATA SCIENCE

Expected Graduation: Dec 2018

- Related Courses : Supervised Machine Learning, Natural Language Processing, Applied Probability and Stochastic Processes, Special Topics in Artificial Intelligence

### Government Engineering College, Thrissur

Sep. 2007 - June 2011

BACHELOR OF TECHNOLOGY

- Related Courses : Data Structures and Algorithms, Database Management Systems, Programming Paradigms, Numerical Analysis and Optimization Techniques, Design and Analysis of Algorithms

## Technical Knowledge

**Specialities** Classification and Clustering, Regression, Deep Learning, Natural Language Processing & Distributed Computing

**Programming** Python, R, Scala, Shell Scripting, Java, Groovy, Javascript

**ML Tools/Frameworks** Tensorflow, Keras, Scikit-Learn, Pandas

**Big Data Ecosystem** Apache Spark and Spark Mllib, Apache Hadoop, Hive, Flume, Sqoop, Oozie

**Databases** MySQL, MongoDB, HP Vertica

**Domains** E-commerce

**Certifications** Scalable Machine Learning(edX), Introduction to Big Data with Apache Spark (edX), Machine Learning (Coursera)

## Recent Academic Projects

- **Quantifying Semantic Similarity of Sentences using Long Short-Term Memory Neural Nets:** Designed and implemented a sequence-to-sequence model (LSTM network) for classifying semantically similar questions in Quora from the ones which are not. After tuning, the network was able to obtain an accuracy of 83% on validation.
- **Finetuning AlexNet for Custom Classification :** Tuned the layers of pre-trained alexnet model for custom binary image classification, obtaining an accuracy 94% for the new task.
- **The Fake News Stance Classification:** Achieved an accuracy of 88% on the task of classifying fake news from the genuine ones to four discrete levels - agree, discuss, disagree, unrelated using handcrafted linguistic features along with distance features from vectorized fields(Word2Vec). Random Forests, Support Vector Machines and XGBoost algorithms were used for performance comparison.
- **Home Value Prediction:** Modeled Zillow's house rent prediction problem using Microsoft's LightGBM and obtained a mean absolute error of 0.064

## Experience

### [24]7 Innovation Labs

Bangalore India

SENIOR DATA ENGINEER

June 2016 - Dec 2016

- Modeled chat transcripts from customer conversations for user intent prediction for customer agent queue routing, and achieved an accuracy of 90%.
- Designed and developed a Natural Language toolkit on PySpark for chat transcript data analysis and modeling.
- Configured the toolkit on a multi-cluster environment with three apache spark nodes for scalability.

### [24]7 Innovation Labs

Bangalore, India

DATA ENGINEER

May 2015 - June 2016

- Analyzed and modeled user data from web for several clients in the e-commerce domain for increasing chat propensity of potential customers with customer agents and uplifting purchases.
- Integrated SVM algorithm into the domain specific custom modeling tool and scaled over a million data points.

### Xurmo Technologies Pvt. Ltd.

Bangalore, India

SOFTWARE ENGINEER

July 2011 - May 2015

- Developed and maintained machine learning modules of the flagship product of the company - Xurmo big data analytics platform.
- Developed and integrated machine learning algorithms on Apache Spark (Java).
- Developed REST APIs for data retrieval and processing using the platform.
- Developed custom analytical functions as a platform functionality for data transformation.
- Developed analytics applications using the Platform as a Service - Text exploration engine, Stock market movement prediction, Sentiment analyzer, Customer churn prediction.
- Collaborated for building data indexing and query optimization modules.

## Activities & Awards

Fall '17 **Program Liaison for Data Science**, CCIS, Northeastern University

May 2016 **Above and Beyond**, Award for best team performer, Innovation Labs [24]7

Bangalore, India

Sep 2016 **Super Trooper**, Award for best team of the year(4 members) - Innovation Labs [24]7, FY 15-16

Bangalore, India