

# Sreejith Sreekumar

AVAILABILITY : MAY 2019

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## Education

### Northeastern University, Boston, MA

CANDIDATE FOR MASTER OF SCIENCE IN DATA SCIENCE, GPA: 3.5/4.0

Jan. 2017 - Present

Expected Graduation: Apr 2019

- Related Courses : Supervised Machine Learning, Natural Language Processing, Applied Probability and Stochastic Processes, Unsupervised Machine Learning, Computer Vision, Special Topics in Artificial Intelligence - Text Mining for Humanities and Social Sciences

### Government Engineering College, Thrissur

BACHELOR OF TECHNOLOGY

Sep. 2007 - June 2011

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

## Technical Knowledge

<b>Specialities</b>	Classification and Clustering, Regression, Deep Learning, Natural Language Processing & Distributed Computing
<b>Programming Languages</b>	Python, R, Scala, Shell Scripting, Java, Groovy, Javascript
<b>ML Tools/Frameworks</b>	Tensorflow, Keras, Scikit-Learn, Pandas
<b>Big Data Ecosystem</b>	Apache Spark and Spark Mllib, Apache Hadoop, Hive, Flume, Sqoop, Oozie
<b>Databases</b>	MySQL, MongoDB, HP Vertica
<b>Certifications</b>	Scalable Machine Learning(edX), Introduction to Big Data with Apache Spark (edX), Machine Learning (Coursera)

## Recent Academic Projects

- **Investigating Instances of Gun Violence using Pointer Networks:** Proposed a novel model that employs Attention Mechanism in Sequence-to-Sequence learning and Pointer Neural Nets to extract the attributes of gun violence events from news reports.
- **Quantifying Semantic Similarity of Sentences using Long Short-Term Memory Networks:** Designed and implemented a sequence-to-sequence model (LSTM network) for classifying semantically similar and dissimilar questions from Quora, carrying an accuracy of 83% on validation after tuning.
- **Domain Specific Classification using AlexNet:** Tuned the layers of a pre-trained AlexNet model for binary classification task on images that obtained an accuracy 94% for the new task.
- **The Fake News Stance Classification:** Achieved an accuracy of 88% on classifying fake news from the genuine ones to four discrete levels - agree, discuss, disagree, and 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 algorithm with a mean absolute error of 0.064.

## Experience

### Enterprise Risk - Analytics, Fidelity Investments.

DATA SCIENTIST (CO-OP)

Boston, USA

Jan 2017 - July 2017

- Modeled the detection of anomalies in SOCKS proxy logs for suspicious network activity using Isolation Forest and Local Outlier Factor.
- Developed a framework for enhanced exploratory data analysis of SOCKS connection logs on PySpark.

### Data Science Group, Innovation Labs, [24]7.ai Inc.

SENIOR DATA ENGINEER

Bangalore, India

June 2016 - Dec 2016

- Modeled chat transcripts from customer conversations for user intent prediction for customer agent queue routing that 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.

### Data Science Group, Innovation Labs, [24]7.ai Inc.

DATA ENGINEER

Bangalore, India

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.

SOFTWARE ENGINEER

Bangalore, India

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 custom analytical functions as a platform functionality for data transformation.
- Programmed analytics applications using the Platform as a Service - Text exploration engine, Stock market movement prediction, Sentiment analyzer, Customer churn prediction.

