

# 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

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

### Government Engineering College, Thrissur

BACHELOR OF TECHNOLOGY

Sep. 2007 - June 2011

- **Relevant 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>          | Natural Language Processing, Classification and Clustering, Regression, Deep Learning, & Distributed Computing |
| <b>Programming Languages</b> | Python, C++, Shell Scripting, Java, Groovy, Javascript   |
| <b>ML Tools/Frameworks</b>   | Tensorflow, Scikit-Learn, Pandas, Matplotlib   |
| <b>Big Data Ecosystem</b>    | Apache Spark and Spark Mllib, Apache Hadoop, Hive, 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)  |

## Experience

### Centre for Complex Networks Research, Northeastern University

GRADUATE STUDENT RESEARCHER

Boston, USA

Jan 2019 - Present

- Studying the effects of the linguistic structure of titles and abstracts of scientific publications in creating impact among researchers and building non-linear quantitative models to estimate it.

### Enterprise Risk - Analytics, Fidelity Investments.

DATA SCIENTIST (Co-Op)

Boston, USA

Jan 2017 - July 2017

- Analyzed network traffic log data, built insightful visualizations, and developed anomaly detection predictive models for abnormal network activity detection.
- Developed a framework for enhanced exploratory data analysis of network 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 a recall of 0.87.
- 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 website visit behaviour for several clients in the e-commerce domain for detection of potential customers who needed help with purchases and predicted their chat propensity with a customer service agent.
- 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 custom analytical functions for Xurmo Big Data Platform for data transformation.
- Programmed analytics applications using Platform as a Service modules - Text exploration engine, Stock market movement prediction, Sentiment analyzer, Customer churn prediction.

## 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 Net to extract the attributes of gun violence events from news reports.
- **Quantifying Semantic Similarity:** Designed and implemented a Long Short-Term Memory neural network for classifying semantically similar and dissimilar questions from Quora, carrying an accuracy of 83% on validation after tuning.
- **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.