

# Sreejith Sreekumar

AVAILABILITY : MAY 2019

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## Education

### Northeastern University, Boston, MA

Jan. 2017 - Present

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

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

Sep. 2007 - June 2011

BACHELOR OF TECHNOLOGY

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

## Technical Knowledge

<b>Specialties</b>	Predictive Modeling, Natural Language Processing, Deep Learning, Distributed Computing, Data Visualization
<b>Programming Languages</b>	Python, C++, Bash, 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>Other Skills</b>	Google Cloud, Tableau, D3.js, Linux
<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

Boston, USA

GRADUATE STUDENT RESEARCHER

Jan 2019 - Present

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

### Enterprise Risk - Analytics, Fidelity Investments.

Boston, USA

DATA SCIENTIST (CO-OP)

Jan 2018 - July 2018

- 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.

Bangalore, India

SENIOR DATA ENGINEER

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.

Bangalore, India

DATA ENGINEER

May 2015 - June 2016

- Analyzed and modeled user data from website visit behavior 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.

Bangalore, India

SOFTWARE ENGINEER

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.