

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

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

Programming Languages Python, C++, Shell Scripting, Java, Groovy, Javascript

ML Tools/Frameworks Tensorflow, Scikit-Learn, Pandas, Matplotlib

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

Databases MySQL, MongoDB, HP Vertica

Certifications 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 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.

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.
- 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.