

Sreejith Sreekumar

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EDUCATION

- **Northeastern University** Boston, MA
Master of Science in Data Science *Jan. 2017 – Present*
- **Government Engineering College** Thrissur, India
Bachelor of Technology in Computer Science and Engineering *Sep. 2007 – Apr. 2011*

SKILLS

- **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
- **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 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** Boston, US
Data Scientist (Co-Op) *Jan 2017 - Jul 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.** Bangalore, IN
Senior Data Engineer *Jun 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.** Bangalore, IN
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, IN
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 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.