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*

- 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 *Sep. 2007 - June 2011*

Bachelor of Technology

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

Technical Knowledge

Specialities	Classification and Clustering, Regression, Deep Learning, Natural Language Processing & Distributed Computing
Programming Languages	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, USA*

Data Scientist (Co-Op) *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. *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 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, India*

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, India*

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.