Sreejith Sreekumar

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Education

Northeastern University, Boston, MA *Jan. 2017 - Present*

Candidate for Master of Science in Data Science *Expected Graduation: Dec 2018*

- Related Courses : Supervised Machine Learning, Natural Language Processing, Applied Probability and Stochastic Processes, Special Topics in Artificial Intelligence

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	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
Domains	E-commerce
Certifications	Scalable Machine Learning(edX), Introduction to Big Data with Apache Spark (edX), Machine Learning (Coursera)

Recent Academic Projects

- **Quantifying Semantic Similarity of Sentences using Long Short-Term Memory Neural Nets:** Designed and implemented a sequence-to-sequence model (LSTM network) for classifying semantically similar and dissimilar questions from Quora. The network was able to obtain an accuracy of 83% on validation after tuning.
- **Finetuning AlexNet for Custom Classification:** Tuned the layers of a pre-trained AlexNet model for binary classification of images that obtained an accuracy 94% for the new task.
- **The Fake News Stance Classification:** Achieved an accuracy of 88% on the task of 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 which obtained a mean absolute error of 0.064.

Experience

[24]7 Innovation Labs *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.

[24]7 Innovation Labs *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).
- Implemented APIs for data retrieval and processing using the platform.
- Developed custom analytical functions as a platform functionality for data transformation.
- Developed analytics applications using the Platform as a Service - Text exploration engine, Stock market movement prediction, Sentiment analyzer, Customer churn prediction.
- Collaborated for building data indexing and query optimization modules.

Activities & Awards

Fall '17	**Program Liaison for Data Science**, CCIS, Northeastern University	
Q2 '16	**Above and Beyond**, Award for best team performer, Innovation Labs [24]7	*Bangalore, India*
Q3 '16	**Super Trooper**, Award for best team of the year(4 members) - Innovation Labs [24]7, FY 15-16	*Bangalore, India*