

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 questions in Quora from non-similar ones. After tuning, the network was able to obtain an accuracy of 83% on validation.
- **Finetuning AlexNet for Custom Classification :** Tuned the layers of pre-trained alexnet model for custom binary image classification, obtaining 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, 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 and 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, and 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).
- Developed REST 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	
May 2016	Above and Beyond , Award for best team performer, Innovation Labs [24]7	Bangalore, India
Sep 2016	Super Trooper , Award for best team of the year(4 members) - Innovation Labs [24]7, FY 15-16	Bangalore, India