Ritvika Nagula

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Work Experience

Trifacta Inc. *San Francisco, CA*

MACHINE LEARNING (SE) INTERN *Jan. 2018 – Jul. 2018*

- Built a machine learning model to suggest join keys with a ~20% increase in accuracy by wrangling user logs to generate training data.
- Integrated a back-end machine learning model which provides source pattern to target pattern standardization suggestions with the front-end user interface.
- Analyzed product logs to determine the new user retention rates and churn values in a conversion funnel.

Education

Northeastern University *Boston, MA*

MASTERS IN COMPUTER AND INFORMATION SCIENCE - 3.33/4 *Sep. 2016 - Exp. Dec. 2018*

- Machine Learning, Data Mining, Programming Design Paradigm, Managing Software Development, Parallel Data Processing Using Map Reduce, Foundations of Artificial Intelligence, and Algorithms

National Institute of Technology *Raipur, India*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING - 8.35/10 *May 2016*

- Analysis and Design of Algorithms, Data Structures, DBMS, Operating Systems, Compiler Design, Computer Networks

Skills

Languages: Python, Java, Scala, R, C/C++, Ruby, Bash, Racket, SQL
Web Technologies: JavaScript, PHP, Node.js, JQuery, HTML, CSS, Bootstrap, Python Flask
Tools: Spark, Hadoop, Weka, Git, Tableau, MySQL, Heroku, RStudio, AWS, Sahi Pro
Libraries: Pandas, NumPy, NLTK, Scikit-Learn, keras, matplotlib, tensorflow

Academic Projects

Predicting Song Downloads
Scala, Spark, R, ggplot2 *Dec. 2017*

- Efficiently predicted the number of downloads of songs from the Million Songs Dataset by implementing a linear regression model in Spark using Scala and performed data analysis of both raw data and results in R.

Mining Yelp Reviews
Python, Spark, Jupyter Notebook *Dec. 2017*

- Devised a new system of user specific ratings for restaurants by analyzing the latent criteria of reviews from the Yelp Dataset by implementing Latent Dirichlet Allocation in Python and Spark.

Boston Public Schools Transportation Problem
Java, Agglomerative Clustering *Jun. 2017*

- Effectively utilized a hierarchical clustering algorithm in Java as a member of an Agile team to efficiently assign bell-times of schools in order to minimize the number of buses servicing the schools.

Solving Cryptarithmetic Problems
Python *Apr. 2017*

- Developed a code to solve cryptarithmetic problems consisting of addition and subtraction operations as a combination of a backtracking search problem and a constraint satisfaction problem in Python

Clickbait Detection using Ensemble Learners
Python, Scikit-Learn, NLTK *May 2016*

- Evaluated the performances of various ensemble learners implementing different machine learning strategies after identifying the main features to distinguish between click baits and authentic news headlines collected from an available corpus using Python, Scikit, NLTK, and MySQL.

Sentiment Analysis of Tweets
Python, Scikit-Learn, NLTK, Tweepy API *Dec. 2015*

- Analyzed the opinion of the public towards a sale conducted by an e-commerce website in India for 5 days by collecting live tweets and developing a model to determine the polarity of the tweets using machine learning and natural language strategies in Python, Scikit, and MySQL. {IEEE Research Paper}

Extra Projects

Document Classifier, a Python Flask app deployed on Heroku to classify documents using Random Forest Classifier. *Oct. 2018*
The Good Reader Bot, a Facebook chatbot integrated with the Goodreads API to get information about books. *Sep. 2018*
Word-A-Diction, an Android application to help improve the vocabulary of the users using AndroidStudio. *Feb. 2015*