Ritvika Nagula

Available : January 2019

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Education

Northeastern University   *Boston, MA*

MASTERS IN COMPUTER AND INFORMATION SCIENCE - 3.3/4.0   *Sep 2016 - Exp. Dec 2018*

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

National Institute of Technology Raipur   *India*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING - 8.35/10.0   *May 2016*

- Data Structures, Analysis and Design of Algorithms, DBMS, OOPS Concepts, Compiler Design, and Network Programming

Work Experience

Trifacta Inc.   *San Francisco, CA*

SOFTWARE ENGINEERING (ML) INTERN   *Jan. 2018 - Jul. 2018*

- Wrangled user logs to generate training data and built a machine learning model to predict better join key suggestions with a 20% increase in accuracy.
- Integrated a back-end machine learning model which provides source 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.

Academic Projects

Predicting Song Downloads   *Dec. 2017* 🐙

- Efficiently predicted the number of downloads of songs from the Million Song Dataset by implementing a logistic regression model in Spark using Scala and used R for analyzing both the raw data and the results.

Mining Yelp Reviews   *Dec. 2017* 🐙

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

Boston Public Schools Transportation Problem   *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   *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   *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   *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

Word-A-Diction, an Android application to help improve the vocabulary of the users using AndroidStudio.   *Feb. 2015*

Skills

Languages	Python, Java, Scala, R, C/C++, Ruby, SQL
Web Technologies	Javascript, PHP, Node.js, JQuery,HTML, CSS,
Tools/Frameworks	Spark, Hadoop, Weka, Tableau, MySQL, Oracle, RStudio, Jupyter Notebooks, Git, Confluence, Jira, Phabricator, Sahi Pro