

Ritvika Nagula

SOFTWARE ENGINEER · FULL STACK WEB DEVELOPER · DATA ENTHUSIAST

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Work Experience

Trifacta Inc.

San Francisco, CA

SOFTWARE ENGINEERING INTERN

Jan. 2018 – Aug. 2018

- Integrated a back-end machine learning model which provides source pattern to target pattern standardization suggestions with the front-end user interface.
- Built a machine learning model to suggest join keys with a ~20% increase in accuracy by wrangling user logs to generate training data.
- Fixed minor UI related bugs and added Mocha unit tests.
- 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 - 3.42/4

Sep. 2016 – Dec. 2018

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

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: Java, Scala, Python, R, C/C++, Ruby, SQL

Frontend Web Design: HTML5, CSS3, Bootstrap, JavaScript (also ES6), JQuery, React.js, Redux, LESS, SASS

Backend Web Technologies: SOAP and REST API, Node.js, Express, Django, MongoDB

Tools: Spark, Hadoop, Weka, Heroku, AWS, Sahi Pro

Technical Projects

Boston Public Schools Transportation Problem

Java, Agglomerative Clustering, Agile

- 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.

Facial Emotion Recognition

Python, Keras, Tensorflow, Jupyter Notebook

- Built a deep convolutional neural network (CNN) to recognize and classify the human emotion in the images from the Kaggle FER 2013 dataset using Tensorflow wrapped in Keras on Google Cloud Platform.

Predicting Song Downloads

Scala, Spark, R, ggplot2

- 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

- 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.

Sentiment Analysis of Tweets

Python, Scikit-Learn, NLTK, Tweepy API

- 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. {Link - IEEE Research Paper}

Extra Projects

IRC-Chatroom, a clone of IRC chatroom implemented using Node.js, Sockets.io and Express.

Typing.js, a micro-plugin coded in JavaScript to emulate typing animation effect in a browser.

The Good Reader Bot, a Facebook chatbot integrated with the Goodreads API to get information about books.

Document Classifier, a Python Flask app deployed on Heroku to classify documents using Random Forest Classifier.

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