

Ritvika Nagula

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EDUCATION

Northeastern University, Boston, MA

September 2016 – Present

College of Computer and Information Science

Expected Graduation: Dec 2018

Candidate for a Master of Science in Computer Science, GPA: 3.33/4

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

National Institute of Technology Raipur, Raipur, India

May 2016

Bachelor of Technology in Computer Science and Engineering, GPA: 8.35/10

Related Courses: Data Structures, Analysis and Design of Algorithms, Database Management Systems, OOPS Concepts, Compiler Design and Network Programming

TECHNICAL KNOWLEDGE

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

Systems: Windows 2000/XP/Vista/7/8/10, RHEL4, Ubuntu, macOS Sierra

Database: SQL, Oracle

Web Technologies: JavaScript, Node.js, HTML, CSS, PHP

Software: Spark, Hadoop, Tableau, Git, Confluence, Jira, Phabricator

ACADEMIC PROJECTS

Northeastern University, Boston, MA.

Predicting Song Downloads

December 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

December 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

June 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 Cryptarithmic Problems

April 2017

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

National Institute of Technology Raipur, Raipur, India.

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 about a famous E-commerce Website

December 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. ([Research Paper](#))

Word-A-Diction

February 2015

- Developed an Android application to help improve the vocabulary of the users using AndroidStudio.

WORK EXPERIENCE

Software Engineering (ML) Intern, Trifacta Inc., San Francisco, CA.

January 2018 – July 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 and churn values in a conversion funnel.