

Vyshaal Narayanam

☎ (+1) 857-389-1432 | ✉ vyshaal@ccs.neu.edu | 🏠 vyshaal.me | 📱 vyshaal | 📖 ThReShoID | 🌐 vyshaalnarayanam

Education

NEU(Northeastern University)

Boston, MA

MASTER OF SCIENCE IN COMPUTER SCIENCE - 3.62/4

Sep 2016 - Exp. Dec 2018

• Machine Learning, Information Retrieval, Data Mining, Parallel Data Processing in Map Reduce, Web Development, Software Development

DAIICT(Dhirubhai Ambani Institute of ICT)

Gandhinagar, India

BACHELOR OF TECHNOLOGY IN INFORMATION & COMMUNICATION TECHNOLOGY

July 2011 - May 2015

• Algorithms & Data Structures, Database Management Systems, Object Oriented Design, Operating Systems, Graph Theory, Cryptography

Skills

Languages Python, Java, R, MATLAB, C, Scala, Racket, SQL, NoSQL, \LaTeX

Libraries pandas, NumPy, NLTK, scikit-learn, TensorFlow, BeautifulSoup, selenium, gensim, re, plotly, pptx, cProfile

Big Data Hadoop, HDFS, MapReduce, YARN, Spark, HBase, Hive, Weka, MongoDB, Tableau, AWS(EC2,S3,EMR)

Web Technologies HTML/CSS, Bootstrap, Javascript, JQuery, AJAX, AngularJS, NodeJS

IDE & Tools PyCharm, IntelliJ, WebStorm, RStudio, Anaconda, Jupyter, MS Office, Git, Postman, MySQL, Jenkins, Jira

Experience

Natixis Investment Managers (Portfolio Research and Consulting Group)

Boston, MA

DATA ANALYTICS CO-OP

Jan 2018 - June 2018

• Built a Risk Dynamic Framework to analyze the risk exposure of various market signals on a security using machine learning techniques.
• Developed PRCG Scorecard - a tool that evaluates the performance and evaluates the ranks of various securities within each morningstar category. Automated generation of customized client reports in powerpoint using python-pptx library.

ZapStitch Technologies

Bangalore, India

SOFTWARE DEVELOPER

April 2015 - April 2016

• Developed integrations to automate dataflow across cloud applications (like Shopify, Quickbooks, Salesforce, Mailchimp) in different domains using their APIs.

InFoCusp

Ahmedabad, India

RESEARCH PROGRAMMER INTERN

Dec 2014 - Apr 2015

• Programmed web crawlers to collect stock related data, which is later used to discover features in the time series and predict future returns using deep learning techniques.

Academic Projects

Yelp Restaurants Review Analysis

Boston, MA

DATA MINING

Sep 2017 - Dec 2017

• Discovered latent features from positive and negative reviews of restaurants in Yelp dataset by running Latent Dirichlet Allocation(LDA) algorithm. Google Cloud Natural Language API is used for sentiment classification of reviews.

Parallel Data Processing

Boston, MA

MAP REDUCE

Sep 2017 - Dec 2017

• Processed large weather dataset on AWS-EMR clusters to find temperature variations of each station using different design patterns in MapReduce framework.

Boston Public Schools - Transportation Challenge

Boston, MA

SOFTWARE DEVELOPMENT

May 2017 - June 2017

• Implemented a Hierarchical Clustering Algorithm(AGNES) on Boston Public Schools to efficiently assign uniform bell timings to minimize the deadhead time of buses. Distance between schools were obtained from Google Distance Matrix API.

NearBy

Boston, MA

WEB DEVELOPMENT

Jan 2017 - April 2017

• Created a MEAN Stack Application NearBy where users can search for places to visit, shop, eat near them using Foursquare API. Users can save their favorite locations, also view the reviews given by their friends in the activity feed.

Text Based Search Engine

Boston, MA

INFORMATION RETRIEVAL

Sep 2016 - Dec 2016

• Designed Information Retrieval models TF-IDF, Cosine Similarity and BM-25, evaluate and compare performances by computing metrics like Precision and Recall. Implemented pseudo relevance feedback technique using Rocchio's algorithm to improve the search results.

Activities

NEU (Northeastern University)

Boston, MA

TEACHING ASSISTANT - CS1800 DISCRETE STRUCTURES

Fall 2016, Fall 2017

• Organized class activities during recitations to improve student interactions. Graded and provided feedbacks to the students through their weekly assignments.