Vyshaal Narayanam

857-389-1432 | Boston, MA | vyshaalnarayanam@gmail.com | vyshaal.me | LinkedIn: vyshaal | Github: vyshaal

Skills

Languages Java, Python, C, SQL, NoSQL

Big Data Hadoop, MapReduce, Spark, Elasticsearch, Airflow, MySQL, MongoDB pandas, NumPy, scikit-learn, beautifulsoup, selenium, gensim, plotly, NLTK, re

Web Technologies Javascript, Angular, Express, Node, RESTful, Spring, Hibernate, Flask

Tools Git, Linux, Postman, Maven, npm, Jenkins, Jira, AWS

Professional Experience

Data Engineering Fellow, Insight Data Science, Boston, MA

Jan 2019 - Present

- Developed a Flask application that allows manufacturers to learn Consumer Insights for product enhancements
- Architected a distributed data pipeline that utilizes Amazon Customer Reviews of size 80GB and updates indices
- · Introduced customized tweaks to Elasticsearch indices to improve search relevance on the product reviews

Data Analytics Co-op, Natixis Investment Managers, Boston, MA

Jan 2018 - Jun 2018

- Built a Risk Dynamic Framework to analyze risk exposure of market signals on a security using ML techniques
- Productionized the above model to examine all the client portfolios at the fund level
- Ranked securities within a Morningstar Category by computing performance metrics over the period of 10 years
- Automated generation of customized powerpoint reports, thereby saving 15 minutes of an analyst time per client

Teaching Assistant, Northeastern University, Boston, MA

Fall 2016, Fall 2017

- Tutored students to help them understand concepts of Discrete Mathematics and problem solving techniques
- Organized recitations in batches of 30 students and conducted in-class activities to improve student engagement

Software Developer, ZapStitch Technologies, Bangalore, India

Apr 2015 - Apr 2016

- · Developed integrations to automate data flow across cloud applications in different domains using their APIs
- Involved in all areas of development including design, coding, test cases, deployment, triaging and fixing issues

Academic Projects

MapReduce - Parallel Data Processing

Sep 2017 - Dec 2017

- Found temperature variations of stations using different design patterns in MapReduce Framework on EMR
- Implemented Random Surfer Model using PageRank algorithm in MapReduce to rank Wikipedia articles

Yelp Review Analysis - Data Mining

Sep 2017 - Dec 2017

- Discovered latent topics in positive and negative restaurant reviews from Yelp dataset by running LDA algorithm.
- Estimated optimal number of topics using Topic Coherence score to obtain meaningful and interpretable results.
- Utilized Google Cloud Natural Language API to perform Sentiment Analysis of restaurant reviews.

Boston Public Schools - Software Engineering

May 2017 - Jun 2017

- · Performed Clustering Algorithm AGNES on schools to assign bell timings and minimize deadhead time of buses
- Utilized Google Distance Matrix API to find the time taken to travel between the stops for Hierarchical clustering

Text Based Search Engine - Information Retrieval

Sep 2016 - Dec 2016

- Built Information Retrieval Systems using TF-IDF, Cosine Similarity and BM25 models on CACM dataset
- Evaluated their performance levels in terms of retrieval effectiveness by computing metrics like Precision, Recall
- Performed query expansion using pseudo relevance feedback technique to overcome Synonymy

Education

Northeastern University, Boston, MA

Sep 2016 - Dec 2018

M.S. in Computer Science

Coursework: Algorithms, Information Retrieval, Parallel Data Processing, Software Development, Web Development

Dhirubhai Ambani Institute of ICT, Gandhinagar, India

Jul 2011 - May 2015

B. Tech in Information Technology

Coursework: Object Oriented Design, Algorithms & Data Structures, Database Management, Operating Systems