Contact:

(201)208-8412 ab8473@nyu.edu LinkedIn GitHub

Skills:

BI & Warehousing Tools:

Tableau, Power BI, QlikView, SSIS, MS Excel, SAP BI

Programming:

Python(numpy, pandas, matplotlib, scikit-learn, pyspark), Scala, SQL, R, Java, GitHub

Databases:

MySQL, Redshift, PostgreSQL, MS SQL Server, MongoDB

Specialization:

Data Analysis, Data Modeling, Feature Engineering, Hypothesis testing, A/B Testing, Predictive Modeling & Analysis, Descriptive statistics

Big Data Skills:

Spark, MapReduce, Hadoop, Hive

Machine Learning

Linear Regression, Logistic Regression, Clustering, KNN, Decision Trees, Random Forest

Relevant Coursework:

Relational Databases, Data Mining, Data Warehousing, Machine Learning, Applied Data Science, Statistics, Big Data

Education:

Master of Science Major: Informatics New York University Aug 2020 GPA: 3.556

Master of Technology Major: Information Systems Delhi Technological University June 2019 GPA: 3.61

Bachelor of Engineering Major: Information Technology University of Pune June 2013 GPA: 3.42

APARNA BHUTANI

Experience

GRADUATE TEACHING ASSISTANT | NYU-COURANT | NEW YORK CITY

Aug 2019-June 2020

- Conducted recitation for course CORE-UA 111: From Data to Discovery incorporating programming and data analysis using R language, for 60 students
- Taught students quantitative and algorithmic thinking, statistical modeling

DATA SCIENCE INTERN | SIEMENS LTD | INDIA

June 2018-Aug 2018

- Developed first in house Recommendation Engine prototype for Siemens Generator Services department to automate task/issue assignment process to employees
- Performed data exploration, text wrangling & processing. Implemented K nearest neighbors to find similar issues, Cosine similarity to find top 10 employees to solve issues

DATA ANALYST | GB ENTERPRISES | INDIA

Jan 2016- May 2017

- Developed Tableau dashboards providing insights on various milestone KPIs to help business make strategic decisions
- Worked extensively with SQL to improve meeting customer commitments and increase operational efficiencies by utilizing a data driven root cause analysis approach
- Analyzed customer behavior patterns and recommended beneficial changes to the process.
 Increased customer retention rate by 15%
- Eliminated spreadsheet reporting, reduced processing time by 50% and increased reporting accuracy

BUSINESS INTELLIGENCE ANALYST | ACCENTURE SERVICES PVT LTD | INDIA

Nov 2013-Jan 2015

- Performed data analysis, data visualization for large volume of historical data
- Built and tested **Extraction, Transformation, Loading** process to migrate client data from multiple source systems into the data warehouse using SAP BI tool
- Retrieved and aggregated data from multiple sources and compiled it into actionable format
- Collaborated with cross functional teams for defect prevention activities related to business issues and critical operations
- Presented, reported key findings and issues in data reconsolidation, ETL to the client in a simple intuitive format

Projects

PARKING VIOLATIONS IN NEW YORK CITY

Feb 2020–May 2020

- Analyzed the number of parking violations in New York City from 2015 to 2019. Performed geocoding, geospatial joins of 50 million parking violation records using MapReduce, Spark
- Used **Ordinary Least Squares** method to determine rate of change in total number of violation over the four years. Presented the output and loaded to **HDFS**

PREDICTING VACCINE UPTAKE FOR H1N1

Feb 2020–May 2020

- Performed data analysis, data cleaning, feature engineering of H1N1 Vaccine dataset. Used KNN and MICE Imputation model to deal with missing values
- Developed Decision Tree model to predict vaccine uptake using H1N1 vaccine, demographic data.
 AUC score = 0.822. Used Random Forest model to check robustness of result, AUC score = 0.836
- Found key factors responsible for influencing decision to take vaccine. Conducted **sentiment analysis** of Twitter data as an additional study of people's view towards vaccine uptake in pandemic

ANALYZING FACTORS FOR SUCCESS OF RESTAURANTS

Sep 2019-Dec 2019

- Analyzed success of restaurants in Phoenix, Arizona and developed recommender system to recommend top 10 restaurants to users
- Performed data analysis and processing of Yelp data, urban data. Used DBSCAN, Gaussian Mixture,
 K- means to cluster areas based on income, population. Used folium to create interactive map representing clusters
- Conducted sentiment analysis of Yelp reviews using NLP for every restaurant in Phoenix
- Followed classification approach; Used SVM, Xgboost, Random Forest to determine key factors for restaurant success. Increased F1 score from 0.53 to 0.76

Publications

- Susan, Seba, and Aparna Bhutani. "Data Mining with Association Rules for Scheduling Open Elective Courses Using Optimization Algorithms." In *International Conference on Intelligent Systems Design* and Applications, pp. 770-778. Springer, Cham, 2018
- Susan, Seba, and Aparna Bhutani. "A Novel Memetic Algorithm Incorporating Greedy Stochastic Local Search Mutation for Course Scheduling." In 2019 IEEE International Conference on Computational Science and Engineering (CSE) and IEEE International Conference on Embedded and Ubiquitous Computing (EUC), pp. 254-259. IEEE, 2019