

VENKATESH SUBRAMANIAM

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EDUCATION

Saint Peter's University, Jersey City, NJ
Master of Science; Data Science

Anticipated May 2017

Amrita University, Coimbatore, India
Bachelor of Technology; Electronics and Communication Engineering

May 2014

EXPERIENCE

Saint Peter's University, Jersey City, NJ
Graduate and Research Assistant

September 2016 - Present

- Researching key factors that impact road accident and car theft rates by zip code to help Liberty Mutual better forecast premium costs and reduce payouts
- Traveled to Boston to present findings to 30+ Liberty Mutual and Subsidiary Analysts
- Instructed Machine Learning and Statistics Boot camp for students at Saint Peter's University

NYC Data Science Academy, New York, NY
Data Scientist

July 2016 - September 2016

Project Work:

[Predicting Higgs-Boson Signals](#)

- Classified the characterizing events detected by ATLAS into "tau tau decay of a Higgs Boson" versus "background" in the Kaggle Competition
- Implemented Logistic Regression, Support Vector Machine, Random Forest, Gradient Boosting and Extreme Gradient Boosting to determine the tool with the highest predictive accuracy
- Combined the models with feature engineering and used an ensemble method called stacking to improve the results further, yielding a rank in the top 2% out of 2100 contestant

[Sentiment Analysis of Yelp User Review Data](#)

- Web scraped Yelp data for restaurants around Times Square using BeautifulSoup to perform Sentiment Analysis and categorize user reviews as positive, negative or neutral based on key word analytics
- Used shiny app to interactively visualize the Exploratory Data Analysis (EDA) and Sentiment Analysis which demonstrated inconsistencies between written reviews and star ratings

[Predicting the Road Accident Fatality Likelihood](#)

- Utilized Tableau, Python and R to analyze key factors including climate, crime rates, road dimensions and traffic density to determine which of these contribute to road accident fatalities in Seattle and Boston
- Scraped Wunderground weather, Cambridge accidents and Socrata 911 response data with Python
- Implemented Logistic Regression, Random Forest, Gradient Boosting and Hierarchical Clustering machine learning techniques; identified weather as one of the largest contributing factor

Accenture India, Bangalore, India

2014 - 2015

Associate Software Engineer, Data Analyst

- Provided Business Intelligence (BI) data to Analysts for an Australian Bank; utilized BI tools Informatica, SAP Business Object Data Services and Data Visualization with Tableau
 - Created relational schema in SQL that captured structured data including number of account types, transaction volume as well as deposit and withdrawal amounts
 - Extracted, transformed and loaded (ETL) financial data to provide actionable information to key stakeholders; ensured fields were manipulated and new schema were created to meet business demands
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TECHNICAL SKILLS

R (NNet, Dplyr, MASS, Rpart, XgBoost, RandomForest), **Python** (Scikit learn, Matplot lib, Pandas, NumPy, SciPy), **SQL**, **Tableau**, **SAS**, **Microsoft Excel**, **Spark**, **Informatica**, **SAP Business Object Data Services(BODS)**, **Amazon Web Services(AWS)**