RIKESH PATEL

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SKILLS

Programming	Python • R • SQL • SAS • C++
Technologies	Hadoop Ecosystem • AWS • Linux • Git • Tableau • SPSS • Excel
Python Libraries	scikit-learn • pandas • NumPy • IPython • matplotlib
R Libraries	ggplot2 • gganimate • lattice • ggridges • ggbeeswarm

EDUCATION

DePaul University, Chicago, IL 2020
B.S, Computer Science, GPA: 3.3

Related Coursework: Mining Big Data, Fundamentals of Data Science, Database Systems, Data Analysis and Regression (SAS), Data Visualization, Data Structures

WORK

Data Science Intern, Urban Outfitters Summer 2020
Offer accepted. Cancelled due to COVID-19 *Philadelphia, PA*

Would have:
• Built classification model using Naive-Bayes algorithm to optimize marketing channel preferences.
• Transformed raw customer data into MySQL and conducted dimension reduction and attribute encoding in order to prepare data for machine learning.
• Presented my findings to marketing team, which included exploratory and explanatory visualizations created in Python and R.

PROJECTS

Improving Bank Telemarketing using ML Summer 2019
• Responsible for building classification models in Python using decision trees and k-nearest neighbors to predict whether or not a bank client will subscribe to a term deposit.
• Resulted in 84% of positive cases accurately determined and showed that a client's occupation type was the most important feature, among others. (Can be viewed here)
• Also conducted data cleaning and transformation in order to prepare data for ML.

ChatIO Winter 2019
• ChatIO is a web app that allows multiple individuals to engage in private messaging, with simple UI created using HTML/CSS and Node.js/WebSocket backend. Also implemented features to collect user data and allow users to save message history.

Forecasting Medical Expenses using Regression Analysis Fall 2019
• Responsible for building a regression model in SAS to forecast annual medical expenses of Americans based on data provided by an insurance company. Stepwise regression test was used to determine the best fit model. (Can be viewed here)
• Ultimately our model predicted 75% of variability in our data and showed that age, body mass index, and number of children were the most important features in predicting an individual's medical expenses.
• Also was responsible for exploratory data analysis, in which I created visualizations to understand the attributes and used indicators such as VIF to address multicollinearity in our model.

Visualizing Gun Ownership Winter 2018

• Created an interactive streamgraph showing the increase in firearm background checks initiated over the past two decades using the D3 Javascript library. (Can be viewed here)