RIDWAN ALAM

DATA SCIENTIST

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Skills

DATA SCIENCE

Python
Pandas
Numpy
Scikit-Learn
Regression Modeling (Simple, LASSO, Ridge)
Web Scraping (BeautifulSoup)
Matplotlib
Seaborn
Classification Modeling (KNearest Neighbors, Logistic Regression, Gaussian Naive Bayes, Decision Trees, Random Forest Classifier, Gradient Boosted Classifier)
Unsupervised Learning Techniques (NLTK and SpaCy)
Topic Modeling (NMF/LDA/LSA/Corex)
Sentiment Analysis (Vader & TextBlob)
SQL
PostgreSQL
Streamlit
Flask
Github
Balancing (Random Over Sampler, SMOTE, ADASYN, Random Under Sampler)

SOFTWARE ENGINEER

JavaScript
TypeScript
HTML
CSS
React
React Native
Streamlit
Heroku
Netlify
Expo

Education

Virginia Tech Aug. 2008 to May 2012
B.S. Industrial Engineer 2012

Employment

Bright Power New York, NY
Account Manager Apr. 2019 to Aug. 2019

- Generated $1 Million in solar and energy business for 40+ affordable housing clients
- Created proposals with energy efficiency and solar services ensuring CO2 reduction
- Developed financing options via Low-Income Housing Tax Credit from state agencies

Solar Landscape New York, NY
Commercial Project Developer Oct. 2018 to Mar. 2019

- Managed 54.4 MW commercial and industrial pipeline for solar PV solutions
- Prospected 100+ projects ranging from 100 kW to 1.5 MW for direct purchase or PPA
- Educated customers on Federal Tax Credit and State incentives to decrease project cost

Aramark New York, NY
Energy Manager Oct. 2017 to Apr. 2018

- Conducted study at Queen's College ensuring compliance with NYC Local Law 87
- Tested temperature, air flow, static pressure, and motor performance for 13+ AHUs
- Built Excel macros to increase data analysis efficiency by 98%

Ingersoll Rand Chicago, IL & San Diego, CA
Energy Engineer July 2012 to Aug. 2016

- Conducted 180+ studies in USA, Canada, and Mexico saving $2.5 Million in total energy
- Developed $1.5 million in revenue in new territories and $2 million in current territories
- Achieved highest accreditation as Air Master from US Department of Energy

Projects

BTC Sentiment Analysis Nov. 2020 to Nov. 2020

- Scraped Tweets with SNScrape and Tweepy to determine Bitcoin sentiment analysis and correlation with the current and historical price
- Utilized Vader and TextBlob sentiment analysis to determine subjectivity of Tweet
- Observed Twitter topic discussions using LDA, NMF, LDA, and Corex topic modeling
- Deployed app via Streamlit for users to see current cryptocurrency sentiment

New York/New Jersey Flight Departure Delay Study Oct. 2020 to Oct. 2020

- Created model using data from Bureau of Transportation Statistics (BTS) determining flight departure delays from the New York/New Jersey metro area
- Utilized different classification modeling techniques such as Logistic Regression, Gaussian Naive Bayes, RandomForest, and Gradient Boosting
- Compared Accuracy, Precision, Recall, F1, and ROC-AUC curve to select the best model
- Displayed model with Tableau showcasing airports prone to departure delays

Fantasy Football Linear Regression Modeling Oct. 2020 to Oct. 2020

- Utilized Simple, LASSO, and Ridge regression modeling techniques to predict future points of a player based on the previous games' running average
- Scraped data with BeautifulSoup from Pro-Football-Reference
- Compared Train, Val, Test RSME values to determine best model for future predictions

MTA Turnstile Analysis Sept. 2020 to Sept. 2020

- Used Exploratory Data Analysis (EDA) to analyze MTA turnstile data to determine optimal locations for potential donors for a women's tech non-profit
- Utilized matplotlib, seaborn, and Tableau to present results