

RIDWAN ALAM

DATA SCIENTIST

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Skills

LANGUAGES

Python
JavaScript
TypeScript
HTML
CSS
React

DATA VISUALIZATION

Matplotlib
Seaborn
Tableau

PYTHON LIBRARIES

Pandas
Numpy
Scikit-learn
SpaCy/NLTK
Beautiful Soup
Streamlit

DATABASES

SQL
PostgreSQL

MACHINE LEARNING

Regression Models
Classification Models
Natural Language Processing
Neural Networks

CLOUD

Heroku
Netlify

OTHER

Github
Flask
Expo

Experience

Metis

Data Scientist

Remote
Sept. 2020 to Dec. 2020

- ACCET accredited 12-week immersive data science bootcamp focused on project oriented learning
- Core curriculum centered around Python, statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and visualization techniques
- Completed five self-designed data science projects from conception to presentation; including data collection, data management, exploratory data analysis, modeling, and visualizations

Bright Power

Account Manager

New York, NY
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

Commercial Project Developer

New York, NY
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

Energy Manager

New York, NY
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

Energy Engineer

Chicago, IL & San Diego, CA
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

Data Science Projects

Autonomous Vehicle Object Detector

Nov. 2020 to Dec. 2020

- Utilized Darknet Neural Network and YOLO Object Detector to create model to detect different classes of objects such as Traffic Signs and Lights and other vehicles
- Collected 1000+ images for each class with Google Open Images
- Trained model using YOLOv4 pre-trained weights to achieve higher Mean Average Precision

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

Education

Virginia Tech

B.S. Industrial Engineer 2012

Aug. 2008 to May 2012