RIDWAN DATA SCIENTIST

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Skills

LANGUAGES

Python

JavaScript

TypeScript

HTML

PYTHON LIBRARIES

Pandas

Numpy

Scikit-learn

SpaCv

Beautiful Soup

Streamlit

MACHINE LEARNING

Regression Models

Classification Models

Natural Language Processing

NEURAL NETWORK

YOLO

Darknet

TensorFlow

DATABASES

SQL

PostgreSQL

CLOUD

Heroku

Netlify

Google Cloud

Google Colab

DATA VISUALIZATION

Matplotlib

Seaborn Tableau

OTHER

GitHub

Expo

Jupyter Notebook

FRAMEWORKS

React

React Native

Expo

Experience

Metis Data Science Bootcamp

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

Freelance Remote Aug. 2019 to Current Software Engineer

Portfolio Website: www.ridwanalam.com

- Built UI for COVID tracker mobile app using TypeScript, React Native, Expo SDK during Hack Quarantine 2020
- · Deployed stock trading web application on Heroku built with Python, Flask, HTML, CSS, and PostgreSQL that allows users to buy and sell stock

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 **Energy Engineer**

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

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

Dec. 2020

Chicago, IL & San Diego, CA

July 2012 to Aug. 2016

- · 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

- · 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

- · 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 RMSE values to determine best model for future predictions

Education

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