RIDWAN ALAM

DATA SCIENTIST

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Skills

LANGUAGES
Python
JavaScript
TypeScript
HTML
CSS

PYTHON LIBRARIES
Pandas
Numpy
Scikit-learn
NLTK
SpaCy
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
Data Scientist — 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
Software Engineer — Aug. 2019 to Current
- 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 — 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

Data Science Projects

Autonomous Vehicle Object Detector — 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
- 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 — Aug. 2008 to May 2012
B.S. Industrial Engineer 2012