RIDWAN AI AM DATA SCIENCE

ridwanalam.com

♀ Newport News, VA

in ridwanalam/

ridwan102

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

SOL

PostgreSQL

Snowflake

BigQuery

CLOUD

Heroku

Netlify AWS

GCP

Google Colab

MSSOL

DATA VISUALIZATION

Matplotlib

Seaborn Tableau

OTHER

GitHub

Jupyter Notebook

PyCharm

FRAMEWORKS

React

React Native

Expo

Experience

The General

Data Scientist • Built Generalized Linear Model (GLM) for converting transferred leads which generated \$23.3 million in profit

- Built bidding Logistic Regression Model decreasing \$658 Cost/Sale to \$352 and increasing 1.33 Revenue/Spend to 2.54
- Developing Natural Language Processing (NLP) model to support Claims through Sentiment Analysis and Topic Modeling
- Lead Model Performance meetings with Business Partners. Data Scientists, and Engineers to make modeling decisions
- Mentor and guide individuals transitioning into Data Science through the Data Science In-Residence program

HyperloopTT

Public Affairs & Feasibility Studies Contributor

Remote May 2021 to Current

Remote June 2020 to Current

Educated US Public and Private sector entities through live presentations on the economic benefits of a Hyperloop system

• Developed relationships with Port of Virginia, Virginia Passenger Railroad Authority, and Virginians for High Speed Railroad

Freelance Software Engineer

Remote Aug. 2019 to Aug. 2020

New York, NY

· 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 PostgreSOL that allows users to buy and sell

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

Account Manager

- 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

- 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

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%

Chicago, IL & San Diego, CA Ingersoll Rand 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

BTC Sentiment Analysis

Nov. 2020

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

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
- 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
- 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

Metis Data Science Bootcamp

Sept. 2020 to Dec. 2020

Completed self-designed data science projects from conception to presentation; including data collection, data management, exploratory data analysis, modeling, and visualizations

Core curriculum centered around Python, statistics, supervised and unsupervised machine learning, exploratory data analysis, databases, and

ACCET accredited 12-week immersive data science bootcamp focused on project oriented learning