Lee Rowe

Data Scientist/Engineer | Linden, MI | 810-348-7963
Email | Website | GitHub | Medium | LinkedIn

TECHNICAL SKILLS

Prowess: Python (NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, Plotly) SQL, C++, R
Tools: TensorFlow, PyTorch, Keras, Flask, Heroku, AWS, Scipy, Git/Github, FastAPI, Dash, Express
NoSQL, MongoDB, MySQL, PostgreSQL, SQLite, Docker, Anaconda, PyCharm, Jupyter, VS Code
Skills: Data Analysis, Manipulation, Management, Visualization, Statistical Modeling, Hypothesis Testing
Machine/Deep Learning, Predictive Analysis/Modeling, Linear/Logistic//Ridge/Multivariate Regression

PROJECTS

Kickstarter Predictor, *Team Lead* // Link

- ☐ Managed a team that consisted of two other developers to make an app that's able to intelligently predict whether a kickstarter campaign will succeed or fail based on a large variety of variables
- ☐ Used Flask and HTML to display results from a stochastic gradient descent model on the front end of the website using Gunicorn before successfully deploying a fully functioning app to Heroku

Airbnb Price Predictor, *Team Member* // Link

- ☐ Used Plotly Dash to display the accurate predictions that our Random Forest algorithm was making about the price of an Airbnb rental based on a multitude of different fluctuating and complicated variables
- ☐ Tasked with the most data intensive role in a team of 3 which required communication and peer programming to transpire daily to successfully work together throughout development and deployment of our app

Spotify Song Suggestor, *Solo Project* // Link

- ☐ Improved overall interaction and visual appeal by implementing CSS and Javascript on the front end of the app that would then use Uvicorn to produce intelligent predictions once our app was hosted online
- ☐ Took song data directly from Spotify that were ran through a TF-IDF model before using a non-parametric classification version of the K-Nearest Neighbors algorithm to create unique and accurate suggestions

Auto Tweeting Bot, *Solo Project* // Link

- ☐ Created a scraper that uses requests as well as Beautiful Soup 4 to collect quotes from goodreads.com that were then stored in a json file so that they would be able to be selected at random and tweeted with a photo
- ☐ Connected to and worked with Unsplash's API to randomly choose photos to be downloaded, then both the randomly selected photo and scraped quotes were passed to Twitter's API using Tweepy to randomly tweet every two hours

US Car Price Predictions, *Solo Project* // Link

- ☐ Processed data that was originally scraped from auctionexport.com to be able to make predictions using the following models; LinearRegression, XGBRegressor, GradientBoostingRegressor, and RandomForestRegressor
- ☐ Was able to achieve an 80% accuracy score that was then boosted nearly 12% in accuracy using very few hyperparameter tuning methods resulting in predictions that would be only $1,250 off opposed to $10,000

Customer Churn Predictions, *Solo Project* // Link

- ☐ Performed simple EDA techniques to acquire information about an example company's attributes that are most likely to have an effect on their customer attrition rate as well as displayed these visually for easier digestion
- ☐ Used a Logistic Regression model within Scikit Learn's classification report to discover that the recall, precision, as well as F1 scores were all equal to around .90 meaning that the predictions were upwards of 90% accurate

EXPERIENCE

Human Rights First - (NPO), *Data Engineer* // Link

- ☐ Was given the opportunity to work for a nonprofit where I communicated closely with key stakeholders and end users to ensure a robust and highly functional website was being built with the company's ideal vision in mind
- ☐ Worked daily in a large development team to create an intelligent website that's practical use is to assist lawyers, who specialize in helping asylum-seekers, with their daily work that each asylum case may entail

EDUCATION

Bloom Institute of Technology/Lambda School, *Data Science and Machine Learning* // Link Apr 2021- Sep 2021
Bloom Institute of Technology, formerly known as Lambda School is an accelerated program with an immersive (full-time, 40+ hours/week) hands-on curriculum that has a strong focus on computer science, software engineering, and web development. Attained data/computer science as well as machine learning methods certification in the allotted 6 month time frame.