BRANDON BRACHO

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WORK

Haver Analytics
Economic Research Assistant

New York, NY
April 2021 - Present

- Constructed macroeconomic metrics for economic analysis.
- Created 20+ web scrapers using Python modules Beautiful Soup and Selenium to automate data retrieval from countries' central bank and statistical office websites.
- Performed econometric/statistical analysis of economic and financial data to ensure data integrity.
- Managed daily and long-term quality assurance testing on 5+ databases that included anomaly detection, deviation analysis etc.
- Designed and revised procedural documents to standardize data retrieval, quality assurance and analysis processes.
- Automated retrieval and parsing of data from PDF documents using Tabula-Py cutting retrieval times in half.

Propark Mobility
Bookkeeper

Whitestone, NY
March 2020 - April 2021
January 2018 - April 2019

- Managed Accounts Receivable for 13 parking facilities.
- Managed, tracked, and analyzed over $400,000 in gross revenue on a monthly basis.
- Generated and composed monthly, weekly, and yearly financial and logistical reports for clients and upper management.
- Worked alongside accountants to reconcile AR financials using bank statements, merchant reports, etc.
- Tracked and registered AR financial data using a transient and monthly revenue recording platform.
- Attended to customer inquiries regarding outstanding balances, monthly parking availability, payment options etc.
- Trained several members of Operations team on how to read/analyze various financial reports.

Assistant Manager-TWA Hotel

Jamaica, NY
April 2019-March 2020

- Managed a 25+ employee valet parking operation at one of New York's most prolific novel hotels.
- Worked alongside event planning management and Port Authority of New York to plan accordingly for 300+ vehicle events.
- Assisted in creating various financial models depicting revenue and profitability sorted by different parking rates, 3rd party parking profitability, cost, and profitability of parking at Port Authority garages, labor cost, etc. as per client's request.
- Tracked and transposed over 7+ months of parking data including daily vehicle volume by rate, parking occupancy, validation volume etc. into a KPI report.
- Reviewed monthly financial reports including general ledgers, actual vs income statement, and trend reports.
- Assisted in creating cover letters for clients, summarizing financial findings along with operational solutions to either correct or accentuate such findings.
- Assisted in the implementation of 3rd party parking affiliation which increased gross revenue by 50%.

SKILLS

Software: Python (Pandas, Numpy, Sklearn, Tensorflow, Matplotlib, NLTK, Beautiful Soup, Selenium), Microsoft Excel, SQL, HTML, CSS, JavaScript, MS-DOS
Languages: Spanish (Bilingual Proficiency), Italian (Limited Proficiency), Portuguese (Limited Proficiency)

PROJECTS

Herd Immunity Predictor
- Predicted when New York City would reach herd immunity based on available data on vaccinations rates using Sklearn's Ridge Regressor.
- Cleaned, wrangled, and aggregated data using Pandas and NumPy.
- Implemented and optimized Ridge and Random Forest Regressors using GridSearchCV within Sklearn.
- Engineered several features to account for variability in data and achieve a better model fit.
- Visualized various weekly vaccination trajectories using Matplotlib and Seaborn.

Stock Price Predictor
- Implemented and optimized a LSTM Recurrent Neural Network using Tensorflow and Keras in Python to predict future prices of a particular stock based on historical data.
- Scraped 5 years of historical data using an API call in yahoo finance.
- Calculated technical indicators such as SMA, EMA, RSI and MACD based off historical data to provide a better model fit.
- Cleaned, wrangled, and aggregated data using Pandas and NumPy.
- Visualized findings using Matplotlib and Seaborn.

NYC Gun Violence Exploratory Data Analysis/Predictor
- Ran an exploratory data analysis and trained a Gradient Boosting Regressor on over 14 years and 24,000 instances using NYC's Open Data historical shooting dataset.
- Used Pandas and NumPy to clean data and compute statistical and aggregate metrics.
- Plotted density of shootings in New York City using Folium's heatmap and cluster map.
- Scraped over 14 years of historical weather data using Selenium and engineered several time-sensitive features to improve model accuracy.
- Used Seaborn and Matplotlib to plot boxplots, KDEs, bar graphs, scatterplots etc. to visualize findings.

EDUCATION

Queens College, City University of New York
Bachelor of Arts in Economics

Flushing, NY

- Major GPA: 3.64/4.00
- Relevant Coursework: Econometrics, Statistics, Macro/Microeconomics, Macroeconomic Analysis, Price Theory, Business Economics, Money and Banking, Differential Calculus, Accounting, Discrete Mathematics, Programming in Python