Joe Jobscan

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EDUCATION

New York University
08/2019-01/2021
MS in Applied Analytics; GPA 4.0, New York, NY
Northeastern University
09/2014-05/2019
BS in Business Administration; GPA 3.52, Cum Laude Honor Degree, Boston, MA
Concentrations: Finance, Management Information Systems

CERTIFICATIONS AND SKILLS

Certification: Scrum Master Certification (PSM I), Inbound Marketing (Hubspot)
Technical Skills: Proficient in Python, R, SQL, SAS, Tableau, Microsoft Excel, Microsoft PowerPoint, and Bloomberg
Language: Native Mandarin Speaker and Fluent English Speaker

ACADEMIC PROJECTS

Vacation Rentals Price Prediction
10/2019-11/2019
- Improved data quality using R by changing data structure and transforming variables, including missing data imputation, log transformation, factor's levels redefinition, training and testing dataset separation
- Selected 33 significant variables using feature selection and k-means from 36,839 observations, 93 variables
- Realized RMSE of 58.5 using Random Forest and Boosting model, ranked top 20% on the leaderboard
- Authored comprehensive Tableau report and PowerPoint slides to present findings in pricing to non-technical judges

Equity Investment Modeling
07/2019-09/2019
- Restructured daily stock data from Bloomberg of six leader companies and S&P using Pandas and Numpy packages in Python
- Priced stock options based on Binomial Option and Black-Scholes model, modified it into European, American, Asian, Lookback options, and built binomial option trees using Python
- Presented stock returns' in a visually appealing from based on Monte Carlo Stock Simulation
- Validated trading strategies by generating investment signals, back-testing, then comparing results

SQL Database Design
01/2018-05/2018
- Improved information systems integration for a Club Business by designing an Entity-Relationship Diagram (ERD)
- Further implemented the design by constructing a relational schema in 3rd normal form based on the ERD
- Increased business efficiency by producing relational tables, creating subqueries, aggregate queries, and join queries, and developed views from queries

RELEVANT EXPERIENCE

Investment Partners, Philadelphia, PA
07/2019-09/2019
Data Analyst Intern
- Increased client's portfolio returns by analyzing Cryptocurrency industry's performance using Pandas and Numpy in Python, and constructing sensitivity table to present returns based on various weights on crypto, S&P, HF and PE
- Forecasted client's optimal Cryptocurrency portfolio returns till year 2023 using ARIMA Model and Bollinger Bands
- Advised client to enter Brunei, Singapore and Philippine's food market in Southeast Asia areas after analyzing 11 countries' rising middle class income levels from 2010 to 2019, presented results using GeoHeatmap from Tableau
- Improved a Philippine Aircraft MRO (Maintenance, Repair and Operations) client's operation on the ground by finding out the most common Philippine flight accidents and related reasons

New York Realty Inc., New York, NY
05/2017-08/2017
Business Analyst Intern
- Monitored and detected market trends and write weekly market analysis for CEO
- Segmented customers through company's CRM system's results and created next year's tailored marketing promotion plans for each segmentation
- Increased web traffic by 50% by creating marketing plans in collaboration with team based on analytical results