**Haining Fu**

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**Data Analyst Profile**

*Analytical and growth-focused professional with solid experience in performing data acquisition & analysis.*

Skilled in analyzing new products, tools, and techniques to assist with streamlining internal processes and methods of presenting results to clients. Demonstrated abilities in maintaining relationship with various business lines to perform data analysis procedures as applicable to support of ongoing projects. Proven track record of success in resolving complex analytical and data integrity problems while prioritizing and managing multiple tasks. Adept at organizing and prioritizing numerous projects as well as nurturing robust relationships with foreign exchange traders and building/leading teams to achieve shared visions and goals.

*Database Management / Data Acquisition & Analysis / Information Technology*

*Microsoft Office Suite / Team Development & Leadership / Relationship Building*

**Technical Proficiencies**

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| ***Tools & Techniques:*** | **Machine Learning**: Scikit-learn, XGBoost, Keras, Linear Regression, Logistic Classifier, Random Forest |
|  | **Data Acquisition & Wrangling**: Pandas, NumPy, MySQL, Selenium, Scrapy |
|  | **Tools & DBMS**: RStudio, Jupyter, Sublime Text, Excel, Git, PowerPoint  **Visualization**: Matplotlib, Pyplot, Seaborn, ggplot2 |

**Professional Experience**

**Projects:**

*Predicted Hospital Readmission Rate:*

* Assisted predict diabetic re-admitting rates for patients being discharged and re-admitted within 30 days from 130 hospitals.
* Developed a model that predicted regarding re-admitting of a patient within 30 days.
* Based model performance on AUC score of .649 and used model prediction to evaluate readmission of patients.
* Performed financial analysis for each patient and yielded a cost savings of approximately $12M as a whole.

*Predicting House Sale Price:*

* Operated with a group to assess and prepare data for machine learning algorithms.
* Selected and eradicated repetitive features amongst 80 features from raw dataset applying four machine learning methods.
* Implemented multiple machine learning techniques to predict house prices.
* Trained regression models on selected features with stacking method with RMSE score of 0.08024.

*Web Scraping/Data Analysis on BestBuy.com:*

* Extracted above 1,200 refrigerators raw data from BestBuy.com using Scrapy package in Python.
* Executed prices data analysis with visualization for all listed refrigerator on BestBuy.com.

**Senior Foreign Exchange Dealer** (Dec 2008 – Aug 2018) Forex Capital Market, New York, NY

Produced and reviewed intraday trades profit & loss and risk exposure reports. Supported sales/audit teams to deliver accurate FX and CFD prices histories for clients. Abetted with hedging strategies with foreign exchange transaction trades in terms of risk exposure. Inspected negative balance accounts due to margin call on regular basis and submitted such accounts to compliance team for review. Monitored overall open positions for each individual currency pairs and covered outs with banks. Gathered and marked rate curves, volatilities, exchange traded product prices, and future prices in all currencies. Figured out rollover interest charges for both CFD and FX products on daily basis.

**Key Achievements:**

* Supervised and examined clients’ abusive trading behaviors and reported any suspicious trading account to compliance team.
* Maintained effective communication with institutional clients and banks to agree upcoming cashflows.
* Transferred and reserved internal trades volume up to 20M through several bank accounts.
* Implemented Python and MySQL to process extremely large sets of trading data.
* Nurtured great relationships with foreign exchange traders from various investment banks, such as Citi Group.

**Education and certifications**

**B.S. in Finance**

Zicklin School of Business, Baruch College, CUNY

**Data Science Certificate Program**

NYC Data Science Academy, New York, NY

**Coursework**: Machine Learning, Algorithms for Data Science, Foundations of Statistic and Probability, Exploratory Data Analysis & Visualization

***Languages***

Mandarin - Fluent