RENWEN (JACOB) FAN

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EDUCATION

Simon Business School, University of Rochester (GPA 4.0/4.0) Master of Science in Business Analytics (A STEM-Certified Program)

Rochester, NY December 2022

- · Dean's List
- Core Curriculum: Machine Learning with Python scikit-learn; Causal Analytics; Linear Programming; Pricing; NLP and Sentiment Analysis; Big Data; Statistics using R; Marketing Analytics; Data warehousing with SQL

Sichuan University Chengdu, China Bachelor of Economics in Financial Engineering (GPA 3.8/4.0) June 2021

- Award of Excellence in the IT-FINANCE Innovation Contest
- Comprehensive Scholarship of SCU (top 10%)
- Outstanding Student Cadre

PROFESSIONAL EXPERIENCE

Economic Analysis and Financial Big Data Lab Research Assistant, "Price Discovery in Futures Market" Research Group Chengdu, China January 2020 - July 2020

- Performed research that accounted for more than 80% of price changes; helped professional investors to quantify impact of their quotes in price formation process by analyzing high-frequency trade data.
- Translated time series analysis into common language and provided 3 policy recommendations for Security Regulatory Commission based on outcome of the quantile regression model.

Huaxi Securities Co., Ltd. Chengdu, China Quantitative Analyst Intern, Investment Department November 2019 - February 2020 Eliminated the least inefficient 30% investments and improved portfolio performance through compiling trade.

- Eliminated the least inefficient 30% investments and improved portfolio performance through compiling trade models, backtesting statistical data, and optimizing key parameters (like open-position condition).
- Created investment reports to management by utilizing Tradestation and MATLAB, including stocks like SZ300750 that made revenue over 700,000 CNY.

PROJECT EXPERIENCE

New Product (Toy Horse) Conjoint Analysis Project Leader

Rochester, NY

November 2021 - December 2021

- Conducted STP analysis to divide customers into 3 distinct groups through prior and post-hoc segmentations (Principal Components Analysis and K-means clustering).
- Predicted complete product profile ratings data based on partial survey and set scenarios to simulate possible market shares; created the profit matrix that contained the profits in all situations.
- Developed dynamic strategies for the product line that enabled the company to achieve 70% market share.

Local Bank Credit Card Approval Prediction Model Project Leader

Rochester, NY October 2021 - November 2021

 Trained prediction models using Machine Learning algorithms like XGBoost, Random Forest, and Neural Network; other methods like non-linear regressions with interactions and MARS model were also applied.

• Optimized prediction models by changing specifications and evaluated model performance through K-fold cross validation and out-of-bag error.

National Undergraduate Training Program for Innovation Project Leader

Chengdu, China May 2019 - March 2020

- Scraped data with Python crawler and made an ETL pipeline; refined customer lifetime value model to value Fintech Unicorn companies without public financial information.
- Led a team of 5 people to complete the project and achieved national level (the highest).
- Verified effectiveness of the refined model by applying it to P2P debit/credit platform YRD; final error between real and estimated was controlled within 10%.

ADDITIONAL INFORMATION

- Professional credentials: Securities Qualification Certificate in China.
- Technical skills: Python, R, SQL, Hadoop, Hive, Spark, Tableau, advanced Excel, MATLAB, and Stata.
- Languages: Mandarin Chinese (Native) and English (Fluent).
- Interests: Music, Movies, Basketball (was captain of college team), and Tennis.