ZE YU (DARREN) ZHAO

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EDUCATION

Columbia University   New York, NY
Master of Science in Business Analytics   Dec 2022
University of Rochester   Rochester, NY
Bachelor of Arts in Financial Economics and Statistics   May 2021

PROFESSIONAL EXPERIENCE

Success Academy Charter Schools   New York, NY
Data Analyst Associate   Feb 2023 – Present
- Conducted in-depth data analysis on scholars' assessment scores including score distribution and test item analysis using Excel (pivot tables, VBA, vlookups, countifs etc.)
- Built a data warehouse by collecting student assessment information from various files and utilized SQL to set up a relational database and construct an ETL pipeline for data loading
- Maintained rostering and assessment data across systems, ensuring data integrity for reliable analysis and reporting
- Created data visualizations on BI dashboards (Looker and Sisense) to showcase scholars daily assessment performances

HireBeat Inc.   New York, NY
Data Scientist Intern   Sep 2022 – Dec 2022
- Cleaned, transformed and normalized 10,000 IT-related job descriptions from AWS using NLP techniques such as stop-word removal and lemmatization to streamline the company's entity resolution and action keywords scraping process
- Developed and deployed a word2vec model, enhancing the job matching feature by providing top 5 recommended positions to users, leading to a 20% increase in successful job matches
- Designed an ETL pipeline for the recommendation model's output, and established KPIs to monitor the model's success
- Conducted an A/B testing to determine the most effective resume text parser, calculated p-values and test statistics for feature selection, leading to strategic enhancements in the parsing process

Everbright Securities   Guangdong, China
Data Scientist Intern   Jun 2020 – Aug 2020
- Engineered an efficient ETL pipeline using SQL for seamless data loading into Tableau, developed a sophisticated KPI dashboard visualizing the time-variant and sector-wise returns and volatilities of public offer funds
- Led comprehensive market trend research on public offer funds utilizing Python, deployed a multivariate regression model coupled with factor analysis on historical investment performances, predicting next 12 months' investment trend
- Managed the construction of Sharpe Ratio-Maximizing portfolios for four clients, applied attribution analysis and risk control strategies, resulting in average 12.3% ARR, enhancing client satisfaction and investment performance

Metco Ceramic Technology Ltd.   Shanghai, China
Data Analyst Intern   Jun 2019 – Aug 2019
- Extracted 100+ survey responses with SQL and analyzed purchase behavior to advise on product targeting strategy
- Applied ARIMA models in R for a tile company, and tuned parameters using grid search to forecast tile products' sales performance in the next 3 months, achieving 87% accuracy
- Developed a recommendation model using the KNN algorithm to predict and rank customers' preferences on different products, increasing model performance by 14%

PROJECT EXPERIENCE

Capstone Project - Supply Chain Analysis for Apple Inc.   Jan 2022 – May 2022
- Performed Exploratory Data Analysis to analyze supply volume of Apple products, and built a data warehouse for transforming common data wrangling and data preprocessing to Python functions, reducing running time by 200%
- Boosted process efficiency by automating supply and demand data operations, including waterfall charts and auto-highlight/filtering, utilizing Python-based widgets and frameworks

SKILLS

Programing Skills: Python, AWS, Spark, SQL, R, Advanced Excel, Tableau, Git
Statistics & Machine Learning: A/B Testing, Regression, Time Series, Decision Tree, Random Forest, NLTK, PyTorch