Will (Yehuan) Wu, CFA, FRM | Data Scientist

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PROFILE

Dedicated to driving insights through data-driven decision-making and passionate about blending machine learning with a business mindset to solve complex problems. My experience as a trader at Morgan Stanley in quantitative analysis and automation ignited my interest in data analytics. To deepen my knowledge, I enrolled in a data science bootcamp, where I developed skills to create impactful data-driven solutions alongside my analytical background.

SKILLS

SQL, Tableau, Python, R, Scikit-learn, Keras, Pytorch, AWS, Hadoop, Spark, A/B tests, ETL.

PROJECTS

Data Scientist | Heart Attack Prediction Model

JAN 2025, BRAINSTATION CAPSTONE

- Leveraged data visualization and machine learning to build a prediction model for early heart attack detection, reducing potential incidents and healthcare expenditures by enabling data-driven interventions.

Data Scientist | Warner Bros. Content Recommendation Enhancement

MAR 2025, BRAINSTATION HACKATHON

- Collaborated with software engineers and UX designers to integrate GameFi features and a customized reward system into Warner Bros.' MAX app, boosting engagement, retention and premium service subscription.

EDUCATION

BrainStation | Diploma, Data Science

JAN 2025 - APR 2025, TORONTO, ON

Columbia University | Masters in Applied Analytics

AUG 2016 - AUG 2017, NEW YORK, NY

Emory University | Bachelor of Science in Applied Mathematics & Economics

SEP 2012 - MAY 2016, ATLANTA, GA

EXPERIENCE

Senior Associate | Morgan Stanley

DEC 2017 - APR 2024, SHEN ZHEN, CHINA

- Ranked as the top-performing trader in 2022 and 2023 by engineering data-driven strategies that executed $400M daily trades across global markets. Enhance outcomes through customizing algorithm trading strategies, automating risk/reward analysis and optimizing decisions via scenario simulations.
- Achieved a 2% reduction in borrowing cost by developing a prediction model using Python and regression analysis to identify potential liquidity shrinkage, empowering portfolio managers to rebalance proactively.
- Mitigated operational turnover and default risk by 40% through creating pre-trade risk assessment models, leveraging SQL queried data and dynamic Excel templates to simulate forward trade scenarios.
- Evaluated intraday execution results, employing Excel pivot table analysis to achieve a yearly gain of 1.5% in execution performance through daily reviews and design of optimization strategies.