JIAMING HU

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Expected 12/23 NEW YORK UNIVERSITY

EDUCATION

The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance • Expected Coursework: objective-oriented programming (Java), data-driven modeling in Python, stochastic calculus, time series analysis, derivatives pricing, Fama-French, Monte Carlo simulation, portfolio optimization 09/18 - 05/22 NORTHEASTERN UNIVERSITY **B.S. in Data Science & Mathematics** • Coursework: multivariate calculus, linear algebra, ordinary differential equations, law of large numbers, Markov chain, numerical analysis, supervised/unsupervised machine learning, database design (SQL and No-SQL), options pricing (binomial and Black-Scholes) • Honors/Awards: Cum Laude EXPERIENCE 08/21 - 12/21 **MOYI TECH** New York, NY (Fintech company that automates market research and data analysis) **Quantitative Research Intern (Python)** • Conducted industry research on technology and financial sectors in US market • Researched quantitative aspects of financial crises to predict future ones by analyzing transactions and other historical financial metrics (e.g., GDP growth rate, real interest rate) Used existing full-fledged quantitative trading packages such as VNPY to perform backtesting, ٠ and simulated live trading on proposed strategies using Python; analyzed and reported results PROJECTS 01/21 - 04/21 NORTHEASTERN UNIVERSITY Boston, MA Loan Default Predictor (Machine Learning, Python) Collected historical loan application data and performed PCA to reduce dimensionality Developed probability-based Bayesian classification model to determine whether to issue loans • Applied linear and non-linear regression models to predict loan amount to be issued Performed cross-validation, and evaluated different models' performance by interpreting R_{2} , • RMSE, and profits under pre-set conditions (e.g., APR, default duration)

Translated statistical results into business insights and created visualized dashboard in Tableau

07/20 - 10/20

Options Pricing and CBOE Options Market Efficiency (Python)

- Detected \$1M in arbitrage opportunities due to options mispricing; tested boundary condition violations, call-put-parity, and Black-Scholes model using Python
- Analyzed arbitrage by applying Black-Scholes model with delta-neutral strategy in different time • periods and assessed its feasibility

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (Numpy, Pandas, Scikit-learn, Matplotlib), Java, SQL, R *Languages:* English (fluent), Mandarin (native) Publication: Option Mispricing & Arbitrage Opportunity, ICSET 2021 Taiwan Activities: Discrete Structure Teaching Assistant at Northeastern University

New York, NY

Boston, MA