YIFAN (MICHAEL) WANG

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EDUCATION

Expected 12/23	NEW YORK UNIVERSITY	New York, NY
	The Courant Institute of Mathematical Sciences	
	M.S. in Mathematics in Finance	
	• <i>Expected Coursework:</i> Black-Scholes & Greeks, stochastic processes, object-oriented programming (Java), penalized regression and time series, decision trees, machine learning	
09/20 - 05/22	COLUMBIA UNIVERSITY	New York, NY
	B.S. in Applied Mathematics	
	• <i>Coursework:</i> linear regression, partial differential equations, statistical inference, Fourier analysis modern algebra, numerical analysis, CAPM model, advanced linear algebra, options	
09/17 - 05/22	DICKINSON COLLEGE	Carlisle, PA
	B.A. in Mathematics	
	Honors: Major Honor Society, Dean's List, Pi Mu Epsilon Honor Society	
EXPERIENCE		
06/22 - 07/22	DEUTSCHE BANK	Shanghai, China
	Capstone Project, Quantitative Research	
	• Conducted portfolio optimization on index ETFs and gold using mean-variance,	
	Black-Litterman, and risk parity in Python; simulated asset weights to calculate efficient frontier	
	• Extracted pricing from data APIs using Python; performed data cleaning and transformation	
	• Backtested portfolio performance based on risk parity method that auto-adjusted its weights	
	monthly; built functions to calculate annualized return, volatility, Sharpe ratio, max drawdown	
05/21 - 08/21	DELOITTE CONSULTING CHINA	Shanghai, China
	Finance & Performance Consulting Intern	
	• Developed talent scoring framework based on machine learning models such as linear regression,	
	random forest, and gradient boosting decision tree in Python	
	• Performed data collection, cleaning, and transformation of past employee evaluation data; conducted feature engineering based on dimensions such as leadership and technical skills	
	 Created interactive data visualization dashboard in Tableau to perform co 	
PROJECTS		
03/22 - 05/22	COLUMBIA UNIVERSITY	New York, NY
	Machine Learning Driven Sector Return Prediction (Python)	
	• Built machine learning models such as linear regression, ridge regression, and random forest to	
	predict returns of sector ETFs such as US Technology and Financials iShares	
	• Constructed features based on macro factors (e.g., CPI) and sector avera	ge fundamental ratios
09/21 - 12/21	Stock Valuation Based on DCF and Black-Scholes Model (Python)	
	• Built web crawler to collect price and financial statement data from Yahoo Finance	
	• Applied DCF model with growth-rate assumptions in high- and stable-growth periods;	
	 performed Monte Carlo simulations of company's value and stock prices through 10K+ paths Calculated intrinsic stock value using weighted average result from DCF, MCS, and B-S models 	
	Calculated multislic stock value using weighted average result from DCF	r, wics, and B-5 models

02/21 - 05/21 Future Arbitrage Using Ornstein-Uhlenbeck Model (MATLAB)

- Crafted Ornstein-Uhlenbeck mean version model to predict spot-to-future price ratio for gold
- Back-tested arbitrage trading strategy using ratio to test model's efficacy

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (NumPy, Pandas, Sklearn, SciPy), SQL, Java, R, MATLAB *Languages:* English (fluent); Mandarin (native)