GREGORY (GREG) SHARMA

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EDUCATION

Expected 12/25 NEW YORK UNIVERSITY

The Courant Institute of Mathematical Sciences

M.S. in Mathematics in Finance

• *Expected Coursework:* machine learning, model selection, Lasso, ridge, and elastic net regressions, PCA, SVD, risk models, stochastic processes, SDEs, PDEs

09/20 - 05/24 NEW YORK UNIVERSITY

The Leonard N. Stern School of Business

B.S. in Business and Political Economy, Minor in French

- *Coursework:* time series forecasting, equity factor models, political economics, international economics, corporate finance, debt instruments
- Awards: 2023 William Lowell Putnam Mathematical Competition (scored 20; top 20%)

EXPERIENCE

05/23 - 08/23	TRANSMARKET GROUP LLC	Chicago, IL	
	(Privately held global markets proprietary trading firm) Quantitative Trading Intern (Python, SQL, Excel)		
	 Predicted auction yields of new on the run Treasuries using new 2 variable method 		
	• Tredicted auction yields of new on-the-full Treasures using new 2-variable method	1	
PROJECTS			
04/24 - 05/24	 NEW YORK UNIVERSITY Effect of Presidential Election on S&P 500 Volatility and Equity Returns (Python, N Reconstructed 2020 U.S. presidential election win probability using PCA on equity Found electoral data to be statistically significant as exogenous variable in predictin realized variance in S&P 500 	Jew York, NY (ATLAB) r returns ng next-day	
05/21 - 05/23	 Dynamic Asset Pricing Research Collaborated with team on volatility research, overseen by Math Finance professor; volatility and options valuation model for exotic assets (crypto, VX, commodity fut Contributed to weekly quant workshop meetings, integrating topics including gener models, hidden Markov models with multivariate emissions, and random forest tree 	; developed tures) ralized linear es	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (Pandas, PyTorch, TensorFlow, scikit-learn, HuggingFace), SQL, R, C++, MATLAB *Languages:* English (native), French (fluent)

Interests: Transaction-based volatility measures, natural language processing of financial news (text classification)

New York, NY

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