Rino W. Cattabiani

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https://github.com/RinoCattabiani

SUMMARY

Detail-oriented graduate student in Quantitative Economics and Econometrics with strong research, analytical, and communication skills. Experienced in synthesizing complex information into clear, accurate insights and supporting operational and content-related initiatives. Demonstrated ability to self-start, manage competing priorities, and collaborate effectively in fast-paced, team-oriented environments. Strong interest in financial services, data-driven decision-making, and emerging applications of AI.

SKILLS

Languages: Python, R, STATA,
Tools/Technologies: Git, GitHub, LaTeX, SQL
Quantitative Methods: Regression (Logistic, Ridge, LASSO), Random Forest, Neural Networks, XGBoost

EDUCATION

University of Connecticut **Stamford, CT**
Master of Science in Quantitative Economics and Econometrics *8/2024-12/2025*

- **GPA:** 3.5/4.00
- **Relevant Courses:** Machine Learning, Deep Learning, Mathematical Economics, Applied Econometrics

St. John's University **Manhattan, NY**
Master of Science in Risk Management 8/2022-5/2023

- **GPA:** 3.45/4.00

St. John's University **Queens, NY**
Bachelor of Science in Economics, minor in Philosophy 8/2018-5/2022

- **GPA:** 3.52/4.00

QUANTITATIVE RESEARCH PROJECTS

Retrieval-Augmented Generation (RAG) System Analysis (Python)

- Designed 12 RAG configurations comparing chunking methods and embedding models for mathematical philosophy retrieval (Python)
- Showed that semantic chunking + e5-small combination achieved approximately 87% retrieval accuracy and saved ~20 minutes of loading time

Weather-Based Energy Demand Forecasting (Python)

- Engineered temporal features including lag variables and time-based patterns for energy demand prediction
- Achieved comparable performance between XGBoost and neural networks through feature engineering (MAPE = 0.045)

ML-Based Tennis Serve Prediction (R)

- Built multi-class classification models (random forest, neural network, multinomial logistic regression) to predict tennis serve direction using 15+ features
- Achieved 50% accuracy for men's serve and 43% for women's serve; huge improvement over guessing (33% chance)

WORK EXPERIENCE

Fiscal Clerk | Transitional Services for New York (TSINY) **In-Person** | 3/2024-8/2024

- Used applications in Python and R to consolidate large data sets for easy access across departments
- Prepared monthly and quarterly invoices for NYC contracts

VOLUNTARY EXPERIENCE

Pickleball Professional | Pickleball Plus LLC **In-Person**|6/2021-Present

- Helped build a community-based pickleball training initiative, demonstrating leadership, initiative, and organizational development.
- Led group and one-on-one training sessions, fostering a collaborative, inclusive, and team-oriented environment.
- Supported scheduling, communication, and participant coordination, ensuring smooth operations and consistent engagement.
- Contributed to outreach and content development efforts, maintaining accurate and up-to-date information across digital channels.
- Reached 2nd in collegiate singles player in the country; 5th in collegiate doubles