Daniele Prevedello

daniele.prevedello7@gmail.com • https://www.linkedin.com/in/daniele-prevedello/

Education

Columbia University — New York, United States
MA Mathematics (Major GPA: 3.8/4.0) — Class of 2025

- **Business courses:** Startup Fundamentals, Design Digital Operating Systems and Emerging Technologies for Impact
- **Computational courses:** Statistical Machine Learning for Genomics, Machine Learning for Finance, Artificial Intelligence, Natural Language Processing, Stochastic Method Applications, Programming for Quantitative and Computational Finance, Statistical Infinite Time-Series Modelling, Stochastic Processes Application

King's College London, University of London — London, United Kingdom
BSc Mathematics with Management and Finance (Major GPA: 4.0/4.0) — Class of 2021

- **Business courses:** Business Strategy, Accounting, Economics and Continuous Mathematical Finance
- **Computational courses:** Cryptography, Statistical Modelling, Probability & Statistics, Linear Algebra, Abstract Algebra, Calculus and Partial Differential Equations

Competitions

Fide Candidate Master (2009 Peak Fide Rating; 2289 Peak Chess.Com Rating or 99.8% in world rank) — Won 2 Italian Regional Championships; Qualified in 2 Italian Open Chess semi-finals; Favourite openings include the Caro-Kann, English and Queen's Gambit

Experience

Columbia University — New York, United States
Teaching Associate in Statistical Machine Learning and Mathematics of Finance — 09/2024 - Present

- Led 10+ weekly office hours to support students in debugging Python-based financial models and applying machine learning algorithms to financial datasets
- Delivered walk-throughs of stochastic volatility models, Monte Carlo simulations, and risk-neutral pricing, clarifying gaps through code-based demonstrations
- Partnered with 3 faculty to identify knowledge gaps and optimize coverage of 5 quantitative finance topics such as stochastic processes and time-series forecasting

My Guided Space (part of Columbia Startup Lab Incubator) — New York, United States
Founding Product & Data Lead — 09/2023 - Present

- Developed a RAG pipeline that leveraged vector embeddings and a custom-built knowledge base of SaaS tools to match users with relevant products based on goals
- Led development of an AI-powered solution leveraging recommender systems and clustering algorithms, improving match accuracy by 40% based on user feedback
- Obtained 500+ users in 6 months through social media, validating product-market fit and testing monetization via freemium signups and tool discovery incentives

Hewlett Packard Enterprise (via acquisition of Athonet) — London, United Kingdom
Quantitative Analyst — 08/2022 - 08/2023

- Enhanced internal operating model using scenario-based financial simulations, contributing to a 15% increase in non-binding enterprise valuation
- Streamlined data pipelines and data room setup, accelerating Q&A and contributing to a 25% reduction in turnaround time for investor follow-up requests
- Automated key financial reporting workflows by integrating Python (NumPy, NLTK), achieving a 110% reduction in time-to-insight for historical data analyses

Daiwa Securities Group — London, United Kingdom
Quantitative Finance Analyst — 04/2021 - 08/2022

- Developed and maintained 20+ financial models (DCF, LBO, M&A multiples) to forecast valuation outcomes under varying capital structures and macro conditions
- Automated reporting pipelines using Python and VBA, integrating FactSet APIs to deliver near real-time analytics, reducing reporting turnaround by 40%

Altman Solon — London, United Kingdom
Quantitative Finance Analyst — 01/2021 - 04/2021

- Built revenue and EBITDA forecast models for 3+ telecom and infrastructure assets, applying weighted drivers (ARPU, penetration, churn) and scenario-based logic

Projects

Natural Environment Modeling

- **Urban Noise Forecasting:** Deconstructed NYC noise complaints from 2017-2024, uncovering trends through Fast Fourier Transform and Dynamic Harmonic Regression

Dynamic Markets Modeling

- **Real Estate Price Forecasting:** Predicted Ames housing prices with tree-based models and linear regression, achieving best performance with tuned XGBoost
- **Sentiment-Based Alpha Generation:** Backtested a trading strategy using sentiment analysis on 10 years of Amazon reviews to identify stock predictive signals
- **Fundamental Value Stock Signals:** Scraped and analyzed 10-Q filings for 6,000+ U.S. firms; applied Graham's criteria to classify stocks based on metric analysis
- **Market-Neutral Pair Trading System:** Designed a pairs trading strategy in emerging markets using a rolling Kalman filter, z-score sizing, and spread half-life calibration; achieved a 15.2 profit factor and 3.4% Cornish-Fisher VaR with full backtest including transaction costs and liquidity constraints

Skills

Python · SQL · R · Statistics · Machine Learning · Time-Series Analysis · Stochastic Processes · Probability & Statistics · Monte Carlo Simulation · Regression & Classification · Algorithmic Trading · Power BI · Bloomberg Market Concepts · Financial Modelling · Chess (2009 FIDE peak rating) · Basketball · Skiing

Languages

English Native
Italian Native
Spanish Proficient
Romanian Proficient
Chinese Mandarin Beginner