

Gia Tenica

Quantitative Researcher — Data Scientist — Machine Learning Specialist

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PROFESSIONAL SUMMARY

A highly skilled and innovative quantitative researcher with 10+ years of experience specializing in machine learning, data analytics, and algorithmic trading. With an academic foundation in medicine and finance, I combine interdisciplinary knowledge to drive data-driven insights and develop predictive models for cutting-edge financial and tech solutions. Proficient in large-scale data analysis, advanced statistical techniques, and the application of ML algorithms to solve complex business challenges in the tech and finance industries.

EDUCATION

Ph.D. in Quantitative Finance & Computational Medicine <i>Universidad de Santarossa</i>	2012 – 2017 <i>Spain</i>
<ul style="list-style-type: none">Focused on financial models integrating healthcare data for predictive analytics in tradingDissertation: “Predicting Market Volatility Using Machine Learning Algorithms on Biomedical Big Data”	
Master of Science in Data Science and Machine Learning <i>London School of Computational Analytics (LSCA)</i>	2009 – 2011 <i>UK</i>
<ul style="list-style-type: none">Specialized in the application of AI in financial analytics and healthcare forecastingThesis: “Application of Neural Networks in High-Frequency Trading”	
Bachelor of Medicine & Surgery (MBBS) <i>Universidad de Valverde</i>	2004 – 2009 <i>Spain</i>
<ul style="list-style-type: none">Graduated with honorsCompleted research on data analysis techniques for medical imaging and diagnostics	

EXPERIENCE

Lead Quantitative Researcher <i>Argentis Trading Technologies</i>	2020 – Present <i>London, UK</i>
<ul style="list-style-type: none">Spearheaded research efforts in predictive modeling and machine learning for algorithmic trading systemsDeveloped and implemented a suite of ML algorithms to optimize high-frequency trading strategies, resulting in a 15% increase in trade profitabilityLed a cross-disciplinary team combining finance, medicine, and AI to create innovative risk models integrating medical data for healthcare-focused financial productsConducted advanced time series forecasting and anomaly detection using deep learning frameworks (TensorFlow, PyTorch)	
Quantitative Research Scientist <i>Vellum Financial Solutions</i>	2017 – 2020 <i>Madrid, Spain</i>
<ul style="list-style-type: none">Applied machine learning techniques to market prediction models, improving risk management strategies by 20%Designed algorithms for sentiment analysis using financial and health-related news to predict stock movements and market trendsCollaborated with data engineers and analysts to integrate large-scale datasets from financial markets and medical research into unified research pipelines	
Data Analyst — Machine Learning Specialist <i>Helix Innovations</i>	2014 – 2017 <i>London, UK</i>
<ul style="list-style-type: none">Contributed to the development of machine learning models aimed at optimizing biotech investment strategies based on historical data and medical innovation trendsLed initiatives for building automated tools for data preprocessing and feature selection in large-scale financial datasetsWorked closely with clients in the biotech and finance sectors to develop custom analytics platforms	
Research Assistant, Department of Computational Medicine <i>Universidad de Santarossa</i>	2012 – 2014 <i>Spain</i>
<ul style="list-style-type: none">Conducted research on statistical models for predicting patient outcomes based on genetic and clinical dataPublished two papers on the integration of computational medicine techniques in financial forecastingUtilized machine learning to analyze large clinical datasets for early detection algorithms	

PUBLICATIONS

Integration of Medical Data in High-Frequency Trading: A Hybrid Model <ul style="list-style-type: none">Journal of Advanced Quantitative Finance	2018
Leveraging Deep Learning in Predictive Financial Models: A Case Study <ul style="list-style-type: none">Global Journal of Financial Technologies	2019
AI in Financial Forecasting: A Comparative Study of ML Algorithms <ul style="list-style-type: none">Journal of Computational Economics	2020

CONFERENCES & PRESENTATIONS

Speaker – Global Quantitative Finance Forum <ul style="list-style-type: none">“Using Neural Networks for Financial Time Series Prediction”	2022
Panelist – International TechnoFinance Summit <ul style="list-style-type: none">“The Role of AI in Transforming Financial Risk Management”	2021
Workshop Leader – Annual Machine Learning & Finance Symposium <ul style="list-style-type: none">“Machine Learning for Asset Pricing and Market Risk”	2020

AWARDS & RECOGNITIONS

Best Paper Award – Global Quantitative Finance Forum (2021)
Tech Innovator of the Year – Argentis Trading Technologies (2021)
Best Researcher – Vellum Financial Solutions (2019)

TECHNICAL SKILLS

Programming & Tools: Python (Pandas, NumPy, scikit-learn), R, MATLAB, SQL, TensorFlow, Keras, PyTorch, Hadoop, Spark
Data Analytics & ML: Time Series Analysis, Predictive Modeling, Neural Networks, Supervised and Unsupervised Learning, NLP, Sentiment Analysis
Financial Analytics: Algorithmic Trading, Portfolio Optimization, Risk Modeling, Quantitative Research, Statistical Analysis
Domain Expertise: High-Frequency Trading, Asset Pricing, Market Microstructure, Financial Engineering, Healthcare Analytics

LANGUAGES

Spanish: Native | **English:** Fluent | **French:** Intermediate