

Mark Pillon DMS, MBA, MSc²

 markpillon.ca@gmail.com

 <https://www.linkedin.com/in/mark-pillon/>

Professional Experience

Technology Professor | Shaanxi University of Technology - China

March 2025 -

- Instruct undergraduate students in Python, Excel and tableau through specialized courses: “Using Programming to Solve Problems”, “Advanced Spreadsheets for Business”, and “Data Visualization.”
- Design and deliver hands-on curricula to develop problem-solving, data analysis, and visualization skills for real-world business applications
- Leverage advanced technical knowledge (MSc in Data Science and AI, MBA) to enhance student learning in programming and data technologies

Machine Learning Engineer | Buffetti Finance - Rome, Italy

May 2024 - August 2024

- Collaborated closely with the software engineering team to develop new products and automate services, focusing on areas such as fraud detection and prevention, personalized financial services, regulatory compliance, and reporting.
- Actively participated in the design, development, training, and testing of machine learning algorithms tailored for financial applications.
- Conducted research and developed advanced algorithms in the field of artificial intelligence, with a specific focus on applications related to risk assessment, fraud detection.
- Contributed to the deployment of AI-based products and solutions, ensuring compliance with industry regulations and standards while maintaining process efficiency and quality.
- Resolved complex problems related to financial data analysis, identified challenges in algorithm implementation, and designed innovative solutions to enhance performance and accuracy in risk assessment, fraud detection, and algorithmic trading applications.

Literature and Economics Educator | UNNCAHS - Ningbo, China

September 2019 - August 2021

- Developed and implemented innovative teaching methodologies to convey complex economic concepts, including demand, supply, elasticity, and marginal utility.
- Designed and executed a comprehensive curriculum on the History of Economic Thought, integrating quantitative analysis and data-driven approaches.
- Utilized interactive classroom games and exercises to deepen students' understanding of fundamental economic principles.

Business Developer, Educational Training Center | Little Liberty House - Ningbo, China

September 2019 - August 2021

- Designed tailored course curricula focused on quantitative analysis and data-driven

decision-making, resulting in consistent monthly student enrollment growth.

- Leveraged technology to automate homework assignments and streamline learning processes, utilizing platforms such as WordPress, Learn Dash.
- Implemented database solutions for organizing learning materials, optimizing accessibility and facilitating data-driven insights into student performance.

Automotive Dealer Business Development Director | Pilon Motors - North York, ON

July 2014 – September 2019

- Utilized data analytics and financial modeling techniques to conduct comprehensive credit analysis, enhancing the dealership's ability to assess customer creditworthiness and mitigate default risks effectively.
- Implemented innovative business development strategies, leveraging market insights and customer data to identify new revenue streams and optimize sales processes.
- Managed legal proceedings related to small claims, including drafting legal documents, representing the company in court hearings, and negotiating settlements to protect the dealership's interests and minimize financial losses.

Education

MSc Data Science and Artificial Intelligence | Open Institute of Technology, Malta Valletta

September 2023 – August 2024

- Key Modules: Machine Learning, Big Data Analytics, AI Systems Design, Data Visualization
- Research Focus: Optimization of Anti-Money Laundering for real-time analysis
- Relevant Skills: Python, TensorFlow, SQL, Natural Language Processing

International MBA | Rome Business School, Rome Italy

September 2023 – August 2024

- Key Modules: Strategic Management, Corporate Finance, Marketing Management, Leadership and Ethics
- Research Focus: Impact of leadership styles on organizational success in multinational corporations
- Relevant Skills: Business Analytics, Strategic Planning, Financial Modeling, Leadership Development

MSc Quantitative Finance | University of London at SOAS

September 2020 – August 2022

- Key Modules: Financial Econometrics, Derivatives Pricing, Portfolio Theory, Risk Management
- Research Focus: Quantitative modeling for asset pricing and portfolio optimization
- Relevant Skills: MATLAB, Python, Financial Modeling, Statistical Analysis

Certifications & Online Education

Jovian Data Science Bootcamp | November 2022 – April 2023

Data36 Junior Data Scientist | October 2021 – November 2021

Certifications with Canadian Securities Institute

- Investment Funds Canada, 2006
- Canadian Securities Course, 2007
- Bloomberg certified, 2007
- Derivatives Fundamentals Course, 2010
- Options Licence, 2010
- Risk Management Course, 2010
- Technical Analysis Course, 2010
- Options Strategies, 2011
- Derivatives Market Specialist designation - DMS

Technical Skills

- Proficient in Python for data analysis, statistical analysis, and machine learning.
- Experienced in using libraries such as Numpy, Pandas, Matplotlib, Plotly, and Geo Data for data manipulation and visualization.
- Skilled in machine learning techniques including linear models, decision trees, and clustering, using tools such as Scikit Learn.
- Proficient in Excel, SQL, Tableau, PowerBI for data analysis and visualization, and product analysis.
- Developed end to end cloud architecture using Azure Fabric, Data Factory, Synapse Analytics and Power BI