ALEJANDRO MATA ÁLVAREZ

Financial Data Scientist

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Objectives

Bringing together academic studies in both technology and finance from Spain and practical experience in California's financial sector, my goal as a financial data scientist is to eventually lead AI model development. With a solid foundation in Python programming and machine learning, alongside insights gained from working in financial markets, my focus is on uncovering valuable insights from complex data. I aim to introduce practical solutions that enhance decision-making at the intersection of technology and finance.

Work Experience

Financial Data Scientist   January 2024 to present.
Student Investment Fund at Sacramento State   *Sacramento, California*

As a financial data scientist, I led Python script development using Bloomberg Terminal data for security analysis, financial visualization, and trading strategy formulation for a million-dollar investment fund. I also explored machine learning solutions for trend identification and security analysis. Finally, I designed and implemented expected return estimates crucial for portfolio management.

IoT Trainee   April 2023 to August 2023
Vibia Lighting   *Barcelona, Spain*

In my position at Vibia Lighting, I was responsible for designing and building a data driven IoT testing workflow within the Jira ecosystem. This involved utilizing Python-GraphQL to retrieve and analyze test results, as well as designing Power BI dashboards to visualize insights derived from the data. I collaborated closely with different stakeholders and managed to successfully communicate with them to ensure the successful implementation of these solutions.

Education

Business Administration – Data Science   2023-2024
California State University   *Sacramento, California*

GPA: 4.0/4.0 – Dean's Honor List

Joined an exchange program under a scholarship, focusing on statistics and data analytics. As part of the Data Science Club, I worked on their team projects and got an honorable mention in the *2023 Business Analytics Competition* for my machine learning model on loan default prediction.

Machine Learning Specialization   2023
Stanford University Online   *Online*

Grade: 100%

Completed the specialization by building over 15 distinct ML models up from the mathematical fundamentals. Some of the topics were linear and logistic regression, tree-based models (Random Forest, XGBoost...), deep learning, clustering, recommender systems and reinforcement learning.

Business Administration - Finance   2022-2023
Universitat de Barcelona   *Barcelona, Spain*

Grade: 8.1/10.0

While in Barcelona, I focused on finance, applied logical problem solving, and decision sciences, excelling in a mathematical decision-making course with a grade of honor.

Telecommunication Systems Engineering   2019-2022
Universidad de Valladolid   *Valladolid, Spain*

Grade: 7.8/10.0

Excelled on mathematics, covering advanced calculus, linear algebra, linear systems, signal analysis, and statistics. Simultaneously, I developed proficiency in software development, mainly in C-based languages, along with essential tools like Git and software deployment techniques. For my bachelor's thesis, I built a deep learning tool for diagnosing Alzheimer's disease.

Volunteering

Volunteer Radio Co-Host   January 2024 to present.
KSSU at Associated Students Inc.   *Sacramento, California*

Created, scripted, and hosted the successful weekly radio program 'Beat 'N Tracks', researching and explaining world music to 5,000+ listeners.

Skills

- Financial Data Science
- Python
- TensorFlow
- Machine Learning
- Creative Problem-Solving
- Financial Instruments
- Investment Strategies
- Mathematical Thinking
- Reinforcement Learning
- Algorithmic Trading
- Predictive Modelling