Alba Vega Alonso Tetilla

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Data Analyst with a strong background in data science and analytics, skilled in extracting, engineering, and modeling complex datasets. Proficient in Python, SQL, and data visualization tools, with experience in creating impactful dashboards and reports. Adept at translating technical findings into clear, actionable insights for both technical and non-technical stakeholders. Passionate about solving business problems with creative data solutions, and eager to contribute to strategic analytics projects.

Education

PhD Student - Marie Curie Fellowship Horizon 2020   September 2020 - September 2024
University of Southampton   *Southampton, UK*

MSc in Astrophysics   September 2019 - September 2020
Complutense University of Madrid   *Madrid, Spain*

BSc in Physics   September 2015 - September 2019
University of Salamanca   *Salamanca, Spain*

Employment

Research Assistant - Data Analyst   June 2024 – July 2024
University of Southampton   *Southampton, UK*

- Collaborated with the Head of Operations and Purchasing to streamline data collection and analysis processes, reducing processing time.
- Conducted in-depth statistical analysis using Python, identifying key trends that informed strategic decisions in supply chain logistics.
- Worked with UN Comtrade for data cleaning and statistical analysis of database data, including unsupervised Machine Learning.

Data Scientist   January 2023 – April 2023
OmegaLambdaTec GmbH   *Munich, Germany*

- Led the optimization of AIS data processing for maritime ship movement, improving the accuracy of Estimated Time of Arrival (ETA) predictions, contributing to more efficient route planning and cost savings.
- Employed unsupervised machine learning techniques to analyze data, providing actionable insights that improved operational efficiency and reduced fuel consumption.
- Actively engaged with cross-functional teams to integrate data-driven insights into decision-making processes, supporting a data-centric culture.

Exotics Derivatives Trader   February 2020 – September 2020
Santander Bank   *Madrid, Spain*

- Designed and implemented Python-based automation tools for trading operations, reducing manual errors and improving task efficiency.
- Conducted thorough market data analysis, leveraging quantitative models to optimize trading positions and identify profitable opportunities.

Skills

Technical Skills: Python (Pandas, Numpy, scikit-learn), Data Visualization (Matplotlib, Seaborn), Advanced Excel, R, SQL, PostgreSQL, Git, Jupyter Notebook, Bloomberg, UN Comtrade database/API

Analytical Skills: Data analysis, Statistical Analysis, Predictive Modeling, Process Optimization, Root Cause Analysis, Data Engineering, Geospatial Analysis

Project Management: Strategic Planning, Cross-functional Collaboration, Reporting and Presentation

Soft Skills: Attention to Detail, Organizational Skills, Effective Communication (Experience presenting at international conferences, effectively communicating complex concepts), Problem-Solving, Decision-Making, Stakeholder Management, Technical to Non-Technical Translation

Additional Expertise: Data Cleaning, Predictive Analytics, Business Process Optimization, Published in peer-reviewed journals (demonstrating strong research and writing skills), Storytelling with Data, Autonomous Work Ethic

Languages: Spanish (native), English (fluent, academic proficiency), Italian (Basic)