



WILMER MATEO
HERAS VERA
Data Science

Hello, my name is Mateo, and I am a data Science. I specialize in extracting, cleaning, analyzing, and presenting data in various formats and Dashboards. I have experience working with information from a variety of industries, and I am excited to help organizations use their data to improve their operations and decision-making. Additionally, I am a technology enthusiast, especially passionate about artificial intelligence, which keeps me updated on the latest trends and developments in the field. Moreover, I am a highly versatile and adaptable person, allowing me to quickly learn and master new concepts and tools.

Skills:



Setting aside traditional applications, I have handled Access, MS Project, Sway, and Visio.



I have created tables and queries, as well as connected them to Excel, R, Power BI, and Python.



I have used the APIs of GPT, Whisper, DALL-E, and other open-source models to create various projects.



I have created macros in VBA, tables in Power Pivot, and I have also used advanced formulas and concepts for analysis purposes.



I have developed Dashboards and reports. Additionally, I have executed and Python code within the software.



Mendeley has allowed me to work collaboratively to document the bibliography for research projects.



I have developed automations for Excel, web scraping, machine learning models, and more.



R is an add-on for data analysis in Python, but I have also created Dashboards with R Shiny.



VS Code is my code editor for Python, although I also use it for HTML, JavaScript, etc., but to a lesser extent (as a hobby).



I have developed econometric models and performed descriptive and inferential statistics.



IBM SPSS is another statistical software in which I have modeled regressions, PCA, EDA, and more.



In Google Cloud Platform, I have utilized some APIs to retrieve data and also worked with BigQuery.



In Github, you can find my projects, and it also helps me collaborate with others in programming projects.



I have also managed agile methodologies such as SCRUM and KANBAN.



I have used Bash to a limited extent, although I automated the process of creating directories and cloning repositories from Github.



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<https://mateoheras77.github.io/WEB/>



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WORK EXPERIENCE

Abr/2022 - Jun/2022
Pasante



BANCO DEL AUSTRO

I carried out data structures to send to control entities. I developed dashboards and reports with the information available in the area mainly.

Oct/2021 - Nov/2021
Pasante



**IMPORTADORA DISTRIBUIDORA
MAKOL ECUADOR CIA LTDA**

I provided support in the areas of finance, logistics, and management, mainly in the creation of Dashboards, Data Analytics, and Forecasting model

Jul/2021 - Sep/2021
Trainee



BANCO PICHINCHA

Part 1): I carried out activities related to the digital transformation the institution is undergoing, providing support in the implementation of agile methodologies and topics related to user experience.
Part 2): I offered support to executives of small and medium-sized enterprises (SMEs) in matters related to the acquisition of products by both existing and new customers.

Jul/2014 - Aug/2014
Pasante



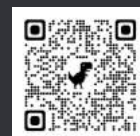
**EMPRESA ELÉCTRICA
REGIONAL CENTRO SUR C.A.**

I provided support in the commercial area of the institution (as part of the academic year approval process of the Salesian Technical

HOBBY



PORTAFOLIO



CERTIFICATIONS:

Udemy:



- Machine Learning with Python. Advanced Machine Learning
- Master Course in R Studio
- Advanced Financial Mathematics
- Microsoft Excel Applied to Finance
- Scrum Certification Course 2022

365 careers:



- Python for Finance: Investment Fundamentals & Data Analytics



Banco Pichincha:

- Power BI Analysis
- Diploma in Design Thinking
- Advanced Excel



SRI:

- Formal Duties
- Simplified Tax Regime (RISE)



Cognitive Class:

- Data Visualization with R
- Predictive Modeling Fundamentals I

EDUCATION:

Sep/2017 - Mar/2023

UNIVERSIDAD DE CUENCA
Economist

Sep/2016 - Jul/2017

UNIVERSIDAD DE CUENCA
Business Administration Student

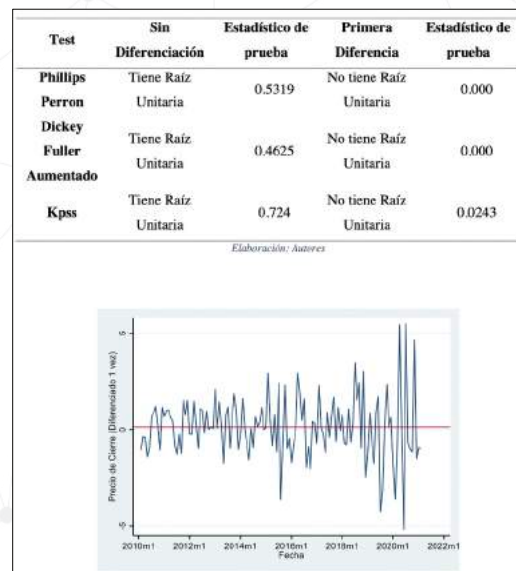
Sep/2010 - Jul-2016

UNIDAD EDUCATIVA TÉCNICO SALESIANO
Bachelor with a major in Industrial, Electrical Installations, Equipment, and Machinery.

COMPLETED PROJECTS

Stock Prediction: Pfizer Inc Case

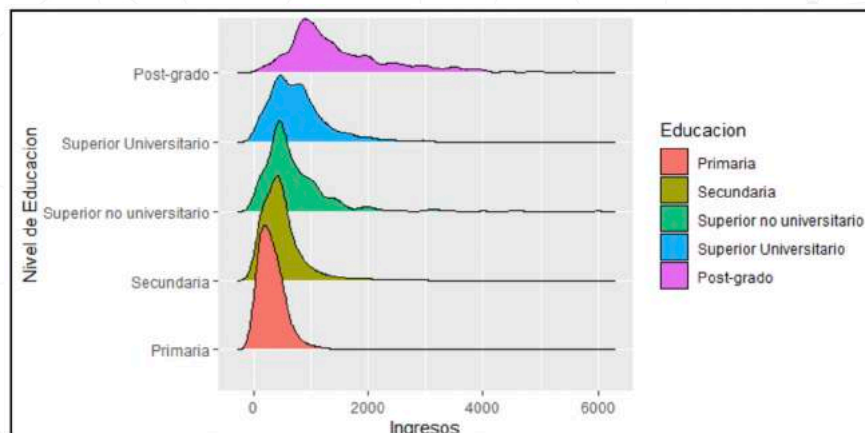
The research presents an application of the methodology developed by Box and Jenkins to forecast the stock price of one of the leading companies in the manufacturing of the SARS-CoV-2 vaccine, Pfizer INC. The analysis period ranged from January 2010 to February 2021 with monthly data. ARIMA and SARIMA models were analyzed, with the former being the one that best fits the nature of the data.



Calculating the Rate of Return on Education: The Case for Ecuador.

In academic literature, we can find a large number of articles with Mincer's linear models, and many of them converge to the same conclusion regarding the rate of return on education: the higher the level of education, the better the economic returns.

This study has been more rigorous in its methodology to find this rate, estimating non-linear models and applying the Box Cox transformation.



Prediction for credit card approval.

Task: Classify users of a banking entity into two types of customers (good payers or delinquent) using the available databases from Kaggle.

Base 1: Contains socio-economic information of the customers (Imbalanced data).

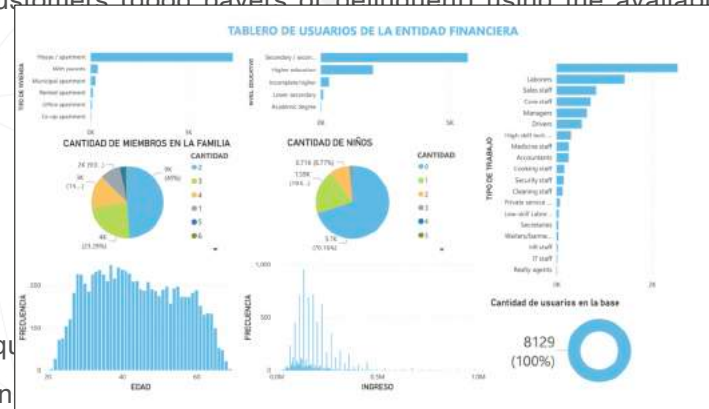
Base 2: Contains the credit history of each customer for the last 60 months (Imbalanced data).

Techniques Used: Since neither database had a class that categorized the customers, unsupervised learning technique was used (after a subjective analysis through mode identification). After obtaining the respective analysis.

TECHNIQUES:

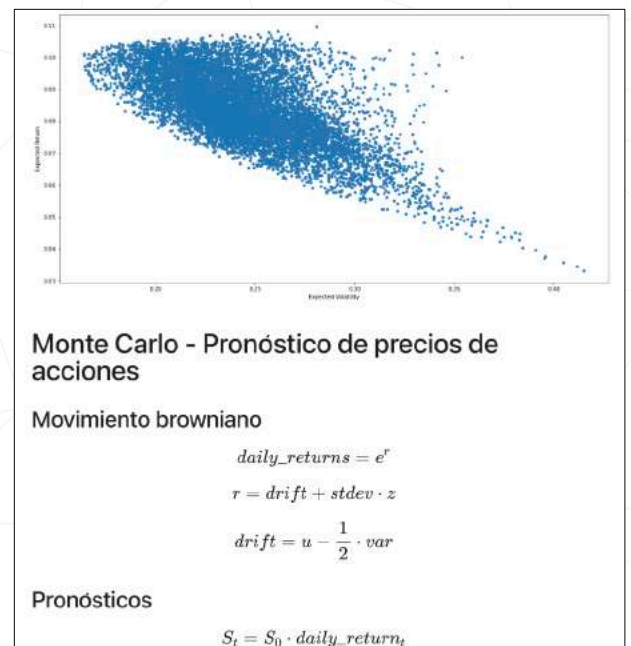
Unsupervised Learning (AnS): Agglomerative Clustering, Balanced Iterative Reducing and Clustering Using Hierarchies (BIRCH), K-Means, Gaussian Mixture Model.

Supervised Learning (AS): Linear, Non-linear, and Ensemble Algorithms.



Creation of an investment portfolio with U.S. stocks.

Creation of an investment portfolio using the Yahoo Finance API and applying Markowitz's theory using Monte Carlo simulations and Brownian Motion.



HOBBY



PORTAFOLIO

