J. Alexander Velasco

Data Scientist | Economist

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FIND ME

Click, is a hyperlink!


j-alexander-vc


jhonalexanderbd.github.io

EDUCATION

BsC Analytics
Economics

Pablo Olavide Uniserity, Seville | 2019

TECHINCAL SKILLS

- Python
- R programming
- SQL
- Tableau
- Matlab
- Stata
- Eviews
- Git and GitHub
- Terminal
- Excel

Libraries for Data science & Machine learning

- Numpy, Pandas, Matplotlib
- Scipy and Seaborn
- TensorFlow, Scikit-learn
- PyTorch, Keras

Others

- Open Ai
- Chat GPT3
- Office

Certificates


Find them, click, here!

Languages

- Spanish
- English (Professional level)

ABOUT ME

As a data scientist with a background in economics, I bring valuable skills for providing business solutions through data analysis.

My strong foundation in data interpretation and problem-solving, along with critical thinking skills, helps me find effective solutions to business challenges. I am proficient in programming languages such as R, Python, and SQL, and have experience with large datasets. I also have a strong understanding of artificial intelligence and am able to develop and implement machine learning models as needed.

I excel in both technical and non-technical communication and thrive in collaborative environments. I am excited to use my skills and experience to make a positive impact in the field and be a valuable asset to any team.

EXPERIENCE

Data Science, Freelance

London | February 2020 - Present

- Collecting and preparing economic data from various sources, including national statistics agencies, financial markets, and surveys.
- Developing and maintaining dashboards and other visualizations to help stakeholders understand key economic indicators and trends.
- Designing and conducting experiments to test hypotheses and validate assumptions.

Intership Central Bank of Europe as Data Analyst

Frankfurt | April 2018 -2019

- Analyzing data to identify trends, patterns, and insights that can inform business decision-making.
- Using Python and Matlab for financial applications, such as calculating and controlling the risk in a portfolio and obtaining the efficient frontier.
- Calculating the Sharpe ratio, alpha and beta parameters for a portfolio.
- Developing and implementing Dynamic and Stochastic General Equilibrium (DSGE) models for the Spanish and British economies using Matlab and Python.
- Applying econometric models in macroeconomics to inform monetary policy decisions.

Coordinator of Erasmus in ESN

Seville, Pablo Olavide University | 2015 -2017

- Coordinated cultural activities with European students as part of the Erasmus program in Seville.
- Demonstrated strong social skills and the ability to effectively communicate and collaborate with people from diverse backgrounds.
- Assisted with logistics and coordination for events and activities.

EXPERIENCE

Econometric techniques for Market Analysis, Research Program

Sweeden, University of Visby | 2017 -2018

- Conducted a research program to study the factors influencing supermarket prices using econometric techniques.
- Analyzed data on supermarket demand, supply, and other economic variables using statistical models and software tools such as STATA.
- Presented findings to industry stakeholders, including recommendations for mitigating price volatility and enhancing market efficiency.
- Contributed to the development of industry-wide guidelines for supermarket pricing based on the results of the research.
- Using regression analysis, time series analysis, panel data analysis, conjoint analysis, and simulation to study the factors influencing supermarket prices and to develop strategies for optimizing pricing and marketing in the industry.

Data Scientist and economist consultant, Casa del Jean

Ecuator, Otavalo | 2017 -2018

- Monitor and review the accuracy of the forecast on an ongoing basis, and make any necessary adjustments to the model as new data becomes available.
- Collect data on your customers' demographics, purchasing habits, and feedback through customer surveys, market research, and other methods.

PROJECTS

- Impact of shocks in Economies in R, Matlab and Python

Analysis of economies using the Solow growth model and investigate the impact of productivity shocks on macroeconomic variables.

Evaluating the impact of monetary policy shocks and government expenditures on macroeconomic variables using DSGE, IS-LM, and AD-AS models. Used tools:

Model time series data using ARIMA methodology.
Decompose time series into components such as cycle,trend, seasonality, and white noise.
Use SVAR and VEC econometric techniques.

- Applied economics in Stata and R

Testing leading indicators for the Spanish economy, including GDP and unemployment rate, and compared my findings to the IS-LM model theory

- Analysis of market strategies in Python and Stata

Understanding market power and develop strategies in an oligopoly context by using econometric modeling of demand equations. Investigate how consumer decisions in the car industry are influenced by the features of cars

Calculate price, income, and cross-price elasticity for consumers and brands in the beer sector.

Use logit and probit models to understand how consumers make brand choices.

-SQL

Create a complex relational database using MySQLWorkbench and visualize it with a map.

Design and implement databases or data warehouses to store and manage large amounts of data.

Debug and optimize SQL queries to improve performance and efficiency.