

Juan Camilo Olaya Monsalve

Economist and Data Enthusiast

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PROFILE

Economist well versed in mathematical modelling and data science dedicated to leveraging data-driven insights to drive real-world business problems using solid analytical skills with +4 years of experience developing systems for data-based decision-making consisting of querying, analysis, description, modelling, and visualisation of data and skilled at improving efficiency through task automation, system design and data modelling.

EDUCATION

EAFIT University

M.S., Applied Mathematics

Medellin, Graduate

January 2024 – Present

EAFIT University

B.A., Economist

Emphasis on Quantitative Economics.

Medellin, Undergraduate

January 2017 – September 2021

EMPLOYMENT HISTORY

GRUPO ÉXITO

Analyst of Planogramming and Assortment Models.

Envigado, Colombia

April 2021 – September 2024

- Reducing execution time quantifies the application of techniques to business process automation (BPA) to increase team productivity.
- Develop, implement, and maintain a mathematical model for optimising the use of display spaces in physical stores.
- Responsible for analysing large transactional datasets to extract meaningful patterns about customer behaviour and segmentation and writing efficient queries.
- Collaborate with cross-functional teams to understand business requirements and translate them into data-driven solutions, such as data insights via reports and dashboards. Develop KPIs to enrich analysis for decision-making.
- Develop advanced algorithms for assessing product substitutability or complementary.
- Communicate findings effectively to both technical and non-technical stakeholders.
- Create and deploy numerous programs to enhance the organisation's product assortment.

INTERNSHIP

GRUPO ÉXITO

Data Science Analyst

Envigado, Colombia

June 2020 – January 2021

- Designed an anomaly detection system using Natural Language Processing (NLP) to identify double promotions on the company website, improving the virtual product offer.
- Participated in evaluating the impact of offers on sales within the small appliance category.

INTEREST

Mathematical optimisation.

Dynamical systems.

Mathematical optimal control.

Data visualisation.

Programming.

Business strategy.

SOFT SKILLS

Adaptability.

Analytical thinking.

Communication skills.

Critical thinking and problem-solving.

Detail oriented.

Leadership.

TECHNICAL SKILLS

Software: Version control system | Excel.

Programming Languages: Python | R | SQL.

Frameworks: Streamlit | Shiny | Machine Learning (TensorFlow, Scikit-Learn, R Torch).

Libraries: Pandas | Numpy | Scipy | Tidyverse.

Visualisation: Power BI | Tableau.

Cloud computing: Azure.

LANGUAGES

Spanish *Native speaker.*

English *Fluent*

PROJECTS

QUANTITATIVE FINANCE LAB

[GitHub](#)

Owner

2023

The Quantitative Finance Laboratory is a research and analysis facility studying financial markets and instruments. The team serves as a hub for quantitative research, risk assessment, and economic modelling using computational tools leveraging mathematical techniques to develop innovative strategies for investment, portfolio management, and risk mitigation.