

Juan Sebastián Casallas

Financial Data Analyst — Modeling & Automation

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[Portfolio](#) [LinkedIn](#) [GitHub](#)

Open to remote, hybrid & relocation

6 h → 15 min

Reporting pipeline, automated end-to-end.

2 bps

Average error of the usury-rate model vs. the official figure.

~95%

Of the commercial portfolio covered by the repricing model.

ABOUT ME

Industrial engineer turned financial data analyst. Four years in banking, building the reporting pipelines and forecasting models that business teams rely on, with Python, SQL, R, and Power BI. Open to financial data analyst roles where analytical thinking drives real business impact.

WORK EXPERIENCE

Financial Analyst II

Mar 2024 – Present

Banco de Bogotá

- Automated a financial reporting pipeline with SQL and PL/SQL, cutting generation time from **6 hours** to **15 minutes**.
- Rebuilt budget migration workflows with SQL and R, simplifying commercial management and reducing operational friction across teams.
- Developed a repricing model for the commercial loan portfolio with SQL and R, covering **~95%** of the portfolio with a maximum deviation of **1 basis point**.
- Built a macroeconomic variables observatory that consolidates the policy rate, IBR, DTF, CPI and UVR daily and projects them to 2030, feeding the repricing model.
- Built an optimization model in R that estimates the usury rate (TIBC) over millions of records, within just **2 bp** of the SFC.
- Automated a data pipeline in R, cutting storage requirements by **more than half** while expanding historical coverage by **13 years**.

Pricing Analyst III

Sep 2022 – Mar 2024

Banco de Bogotá

- Automated the extraction of banking tariffs from the Superfinanciera with Python web scraping, creating the sector's first structured historical benchmark.
- Developed a projection model for commissionable services in Excel and VBA, supporting pricing strategy with forecasts aligned to business goals.
- Conducted market research and competitive analysis across **5 banking entities**, identifying pricing trends and optimization opportunities in the sector.
- Collaborated with multidisciplinary teams to design and monitor pricing strategies, ensuring profitability and market competitiveness.

Data Analyst

Jul 2022 – Sep 2022

Numeris Consultoría Actuarial y Financiera

- Cleaned and processed actuarial and financial insurance data in R, ensuring quality and consistency for decisions based on reliable information.

PROJECTS WITH A LIVE DEMO

Usury Rate Forecasting Model (TIBC)

2 bp average error vs. the official SFC rate

</demos/tasa-usura>

Macroeconomic Variables Observatory

7 daily series projected to 2030; the UVR matches the official figure

</demos/variables-macro>

Commercial Portfolio Repricing Model

~95% of the commercial portfolio, within 1 bp of the system's daily rate

</demos/simulador-reprecio>

CORE SKILLS

Main stack

Python · SQL · R

Data & analytics

pandas · NumPy · scikit-learn
· DuckDB · Parquet · PL/SQL

Modeling

Financial modeling · Pricing · Forecasting · Optimization · Regulatory analytics · Machine learning

BI & automation

Power BI · Power Automate · Excel & VBA · ETL · Web scraping · Git

AI-assisted development

Claude · Gemini · LLM automation

Languages

Spanish (native) · English (B1)

EDUCATION

Industrial Engineering

Pontificia Universidad Javeriana

Jan 2017 – Jun 2022

Degree thesis: Industrial

Bakery Demand ML Model

CERTIFICATIONS

Machine Learning Specialization

DeepLearning.AI & Stanford Online

Data Analysis using R

Google

Effective Problem Solving

University of California, Irvine

Data Storytelling Practices

Crehana

RECOGNITIONS

Most Innovative · Aug 2023

Strategy & Profitability Division