

# Carolina Rios-Trujillo

Bogota, Colombia | [LinkedIn](#) | [GitHub](#) | [Website](#)

## Profile

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Data Scientist with over 5 years of experience in developing machine learning models and conducting advanced data analysis within the banking sector. Passionate about leveraging data to drive actionable insights and strategic decision-making. Proficient in R, Python, SQL, and PySpark, with a proven track record of delivering solutions that increase efficiency and business value.

## Education

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**MIT Professional Education**, Applied Data Science Program May 2024 – Aug 2024

Relevant Coursework: Machine Learning, Big Data Analytics, Recommendation Systems, Deep Learning

[E-portfolio](#)

**Pontificia Universidad Javeriana**, Bachelor of Science in Economics Jan 2015 – Sep 2019

Honors: Second-Best Teaching Assistant Award

Relevant Coursework: Econometrics, Probability, Statistical Analysis, Microeconomics

## Experience

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**Senior Data Scientist, Customer Analytics**, Banco Davivienda – Bogota, Colombia May 2024 – Sep 2024

- Led development of advanced predictive models and data solutions that resulted in a 10% increase in savings account balances.
- Engineered a churn prediction model for corporate payroll agreements, enabling proactive interventions that reduced disengagement risk.

**Semi-Senior Data Scientist, Customer Analytics**, Banco Davivienda – Bogota, Colombia Nov 2022 – May 2024

- Developed classification and clustering models that contributed to a 1-point increase in Net Promoter Score.
- Collaborated on building a Feature Store, optimizing modeling time from 4 weeks to 1 week, significantly improving data scientist's efficiency.

**Semi-Senior Data Scientist, Transactional Analytics**, Banco Davivienda – Bogota, Colombia Jan 2022 – Nov 2022

- Led customer digitization strategies, utilizing machine learning models in R and Python to boost digital adoption by 2 percentage points.
- Optimized data pipelines and analytics processes, enhancing the accuracy of digital behavior insights.

**Data Scientist, Transactional Analytics**, Banco Davivienda – Bogota, Colombia Oct 2020 – Jan 2022

- Redefined the customer digitization index, revealing a more accurate digitization rate of 65% vs. the previously estimated 80%, refocusing marketing efforts effectively.
- Analyzed large datasets to build predictive models that increased customer digitization by 1 percentage point.

**Junior Data Scientist, Transactional Analytics**, Banco Davivienda – Bogota, Colombia Sep 2019 – Oct 2020

- Identified data trends and correlations using SQL and R, enhancing customer understanding for business units.
- Developed interactive dashboards in Google Data Studio and Microsoft Power BI, serving as control panel for the Transactional Analytics team and marketing teams.

**Student Intern, Analytics Department**, Banco de Bogota – Bogota, Colombia Jan 2019 – Jul 2019

Reformulated credit card churn model using R Studio, achieving a reduction in the bank's costs as the previous model was developed by a third party company.

## Technical Skills

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**Programming Languages:** R (Advanced), Python (Intermediate), SQL (Advanced), PySpark (Advanced)

**Data Technologies:** BigQuery, Cloudera, Looker Studio, Dataiku, Microsoft Excel

## Distinctions

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**10th Place Couple, National AI Hackaton Competition** – Colombia Aug 2020

Recognized for developing top forecasts of the exchange rate and employee churn predictions using R.

**Second-Best Teaching Assistant, Pontificia Universidad Javeriana** – Bogota, Colombia Oct 2017

Awarded based on outstanding student performance and feedback in economics courses.

## Courses and Certifications

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**Applied Data Science Program Certificate** Aug 2024  
MIT Professional Education

**Working with BigQuery** Jul 2023  
Google - Coursera

**Google Cloud Big Data and Machine Learning Fundamentals** Dec 2021  
Google - Coursera

## Skills

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**Languages:** Spanish – Native, English – Proficient (TOEFL iBT 103)

**Soft skills:** Adaptability, critical thinking, teamwork, and problem-solving abilities.

**Others:** Intermediate-level tennis player; enjoy participating in sports that foster strategic thinking and perseverance.

## Additional

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**Integration Activities Coordinator, Analytics VP** – Banco Davivienda, Colombia Nov 2020 – Dec 2023  
Organized year-end events for the Analytics Department, improving team communication and collaboration. Coordinated venues, activities, and schedules for over 60 team members.

**Volunteer Trainer** – Fundacion Bolivar-Davivienda, Colombia Feb 2022 – Nov 2022

- Delivered financial education workshops to construction workers, enhancing financial literacy and management skills.
- Facilitated conflict resolution activities for children aged 5 to 11, promoting non-violent communication and problem-solving.

**Teaching Assistant** – Universidad Javeriana, Colombia Feb 2017 – Jun 2017  
**Courses:** Advanced Microeconomics I and Economics Fundamentals  
Provided academic support through supplementary classes and evaluated weekly workshops. Recognized for exceptional student performance and positive feedback.

**Economics Faculty Integration Mentor** – Universidad Javeriana, Colombia Jun 2016 – Jan 2018  
Led integration activities for incoming economics students, facilitating smooth transitions into university life. Organized campus tours and introductory sessions with faculty members.

**Leadership Camp Facilitator** – Universidad Javeriana, Colombia Aug 2017  
Planned and led camp activities focused on developing leadership skills among participants.