

Carlo Domenico Longo de Lemos

Staff Data Scientist @ DataLab Serasa Experian

São Paulo, Brazil

LinkedIn: [carlo-lemos](#)

ML blog: [vitaliset.github.io](#)

GitHub: [github.com/vitaliset](#)

WORK EXPERIENCE

Serasa Experian (credit bureau) | Latin America DataLab

1y11mo - **São Paulo, Brazil**

Staff Data Scientist

1mo - **09/2023 - Present**

- For the past 4 months, I have led GenAI implementations as the team's tech lead. Coordinating a team of two data scientists and two data engineers in building applications such as a legal copilot and a custom email campaign generator. Leveraged the use of retrieval augmented generation minimizing hallucination.

Senior Data Scientist

1y4mo - **05/2022 - 08/2023**

- Established DataLab role in non-life insurance. Created an insurance claims forecasting framework, outperforming industry benchmarks. Introduced MLOps template using Docker and Airflow for automated client backtesting, saving substantial analyst time.

Data Scientist II

6mo - **11/2021 - 04/2022**

- Led a team of two junior data scientists in developing a credit score for the agricultural sector. Defined target population, enhanced cross-validation, and designed business-centric metrics. Replaced external data source, improving model autonomy without sacrificing performance.

Itaú Unibanco (bank) | Advanced Analytical Consulting Management

2y1mo - **São Paulo, Brazil**

Data Scientist I

1y - **11/2020 - 10/2021**

- Led a team of two data science interns in developing a model to set monthly sales targets to Itaú's bank officers using causal inference. A/B testing validated projected 3% annual revenue increase for tested products.

Data Science Intern

1y1mo - **10/2019 - 10/2020**

- Enhanced business processes using Python's pandas and SQL, reducing operation time by 99%.
- Designed causal inference model for pricing, assessing Itaú portfolio elasticity. Introduced a new pricing dimension, impacting 30 million customers.

EDUCATION

University of São Paulo (USP)

08/2021 - Present

Master's degree in Probability and Statistics - Part time student

[GPA: 4/4](#)

Thesis: Threshold tuning of the probability simplex in multiclass classification

Federal University of ABC (UFABC)

05/2015 - 04/2021

Bachelor's degree in Science and Technology (Pure Mathematics)

[GPA: 3.88/4](#)

Undergraduate research fellowships:

- Wada Property in Doubly Transient Chaos (FAPESP)
- The Euler-Maclaurin formula and a few applications in Pure and Applied Mathematics (FAPESP)
- Numerical study of orbits in the 3-body problem (CNPQ)
- Introduction to stellar structure and evolution (UFABC)