Carlo Domenico Longo de Lemos

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WORK EXPERIENCE

Serasa Experian (credit bureau) | Latin America DataLab

Sao Paulo, Brazil

Staff Data Scientist (Data Scientist Specialist II EB7) Full-time CLT

09/23 - Present

Since 04/23, I have led GenAl implementations across Serasa as the team's tech lead. Coordinating a team of four
individual contributors in building NLP applications such as a legal copilot and a custom email campaign generator.
Leveraged the use of retrieval augmented generation minimizing hallucination with inner source Python library for
chatbots creation following guardrails.

Senior Data Scientist (Data Scientist Specialist I EB8) Full-time CLT

05/22 - 08/23

- Introduced a MLOps template using Docker and Airflow for automated client backtesting.
- Developed an insurance claims forecasting framework that outperformed the previous model by over 10 ROCAUC points, surpassing industry benchmarks, generating 1.2M USD in new revenue in its first year.
- Developed a causal inference model to estimate the optimal credit limit based on an individual's credit history.

Mid-level Data Scientist (Data Scientist Analyst III EB9) Full-time CLT

11/21 - 04/22

Led a team of two junior data scientists in developing a credit score for the agricultural sector resulting in a product that
raises 5M USD annually. Defined target population and designed business-centric metrics. Replaced external data
source, improving model autonomy without sacrificing performance.

Itaú Unibanco (bank) | Advanced Analytics Consulting Management

Sao Paulo, Brazil

Junior Data Scientist (Data Scientist I) Full-time CLT

11/20 - 10/21

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 uplift/heterogeneous treatment effect models. A/B testing validated projected 3% annual revenue
increase for tested products.

Data Science Intern (Intern) Paid internship

10/19 - 10/20

- Designed causal inference model for pricing, assessing Itaú portfolio elasticity. Introduced a new pricing dimension, impacting 30M customers.
- Enhanced business processes using pandas, SQL and Hive, reducing operation time.

EDUCATION

University of São Paulo (USP)

08/21 - 07/24

Master's degree in Probability and Statistics - Threshold tuning of the probability simplex in multiclass classification

GPA 4/4

Federal University of ABC (UFABC)

05/15 - 04/21

Bachelor's degree in Science and Technology

GPA 3.88/4

OPEN KNOWLEDGE AND OPEN SOURCE SOFTWARE

Machine Learning blog

vitaliset.github.io

Vitali Set is my personal site where I share insights and knowledge about Machine Learning.

scikit-learn

All my pull requests to scikit-learn

datalib

All my pull requests to datalib

TOOLS I USE DAILY

functional and oop with python, numpy, matplotlib, scikit-learn, pytorch, tensorflow, keras, xgboost, langchain, pandas, sql, pyspark, git, pytest, ci/cd, airflow, docker, azure, linux.

RESEARCH FELLOWSHIPS

Wada Property in Doubly Transient Chaos

11/18 - 09/19

FAPESP (São Paulo Research Foundation)

The Euler-Maclaurin formula and a few applications in Pure and Applied Mathematics

09/17 - 08/18

FAPESP (São Paulo Research Foundation)

Numerical study of orbits in the 3-body problem

08/16 - 07/17

CNPQ (Brazilian National Council for Research and Technological Development)

Introduction to stellar structure and evolution

10/15 - 07/16

UFABC, Researching Since the First Day Program