

Lucas Fazioni

Senior Data Scientist | Risk & Fraud AI | MSc in Computer Science | Quantum Machine Learning Research

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Professional Summary

I have over 6 years of experience in developing analytical and Artificial Intelligence solutions applied to **Fraud Prevention, Risk Management, and support for strategic decision-making**. I work on end-to-end projects, from problem formulation to the implementation, monitoring, and governance of Machine Learning models in large-scale corporate environments.

I am currently pursuing a Master's degree in **Computer Science**, specializing in **Algorithms and Optimization**, and conducting applied research in the field of **Quantum Machine Learning**. I investigate how quantum computing and quantum learning techniques can be integrated into classical data pipelines, exploring new forms of encoding, hybrid architectures, and explainable models for high-dimensional problems. I have a strong background in statistics, predictive modeling, MLOps, data governance, and technical leadership of multidisciplinary teams.

Professional Experience

Bank Sicredi

Senior Data Scientist – Risk & Fraud

September 2025 - Present

Porto Alegre, Rio Grande do Sul, Brazil

- Technical and strategic leadership of Data Science, AI, and Machine Learning initiatives applied to Fraud Prevention and Risk Management.
- Conducting end-to-end analytical projects in partnership with Product, Engineering, and Senior Leadership.
- Defining and executing analytical strategies for products such as PIX, Cards, Credit, and Onboarding.
- Developing, deploying, and continuously monitoring ML models, focusing on performance, explainability, and regulatory compliance.
- Implementing MLOps processes, monitoring deviations, retraining models, and managing model risk.
- Working on the evolution of data governance, AI governance, and adherence to the LGPD (Brazilian General Data Protection Law).
- Leading and developing data teams, ensuring technical excellence and delivery of results.

Key competencies: Machine Learning, AI, Fraud Analytics, Model Risk Management, AI Governance, Technical Leadership, Strategic KPIs.

Mid Data Scientist – Risk & Fraud

March 2024 - september 2025

Porto Alegre, Rio Grande do Sul, Brazil

- Focal point for Data Science and Machine Learning solutions for Risk & Fraud.
- Design and evaluation of statistical experiments and A/B testing.
- Development of supervised, unsupervised, and probabilistic models.
- Statistical modeling and predictive studies for generating strategic KPIs.
- Implementation of MLOps and Feature Store architecture.
- Development of optimization algorithms, reducing operational effort by more than 400 hours/month.

Key competencies: Python, SQL, Databricks, Spark, A/B Testing, MLOps, Optimization.

Fraud Prevention Modeling Analyst

September 2022 - March 2024

Porto Alegre, Rio Grande do Sul, Brazil

- Descriptive, predictive, and inferential analyses to support decision-making in risk and fraud.
- Creation of metrics and data preprocessing in the Feedzai fraud engine.
- Use of UDFs in Spark and analyses in Databricks with PySpark and SQL.
- Development of data ingestion pipelines in a Data Lake on AWS (S3).
- - 40% reduction in data consumption time for risk assessment.

Key competencies: Spark, PySpark, Feedzai, AWS S3, Data Lake, Statistical Modeling.

Getnet Brazil

Mid Data Analyst

January 2020 - december 2020

Porto Alegre and Region, Brazil

- Development of forecasts, trend analysis, and operational capacity control.
- Creation of management dashboards centralizing strategic business KPIs from all operations (Churn, Accreditations, First Call Resolution - FCR, Contact Rate, Call Index, Call Volume (BackOffice)).
- Analysis of productivity and operational efficiency.
- Support for strategic decision-making by managers and superintendents.

Key competencies: Forecasting, KPIs, BI, Operational Planning, Dashboards.

Fraud Prevention Modeling Analyst

January 2019 - december 2019

Porto Alegre and Region, Brazil

- Anti-fraud analysis for e-commerce, balancing approval and loss mitigation.
- Statistical risk modeling and data experimentation.
- Development of alert and performance dashboards in Tableau.
- Monitoring the performance of the anti-fraud analysis team.

Key competencies: Anti-fraud, Statistical Modeling, Tableau, Data Experimentation.

Education

Federal University of Rio Grande do Sul
Master's Degree, Computer Science (2025-2026)

UniRitter Ritter dos Reis University Center
Postgraduate Specialization, Data Science (2024)

UNINTER International University Center
Bachelor's Degree in Accounting Sciences (2022)

Certifications

- Deep Learning training with PyTorch (Mar 2024)
- Advanced Machine Learning training (Feb 2024)
- Data Engineering training with Databricks (Nov 2023)
- Statistics training with Python (Jun 2023)
- Data Science training (May 2023)