Rafael Verdi de Freitas

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Professional Summary

Results-driven Data Scientist with over 5 years of experience in the financial industry, specializing in Strategic Data Management, Fraud Prevention, and Machine Learning. Proven track record of developing advanced fraud detection algorithms, building predictive models, and enhancing operational efficiency through automation and DevOps practices. A collaborative team player with a strong background in Business Administration, skilled in translating complex data into actionable business insights and driving organizational success.

Technical Skills

- **Programming & Databases:** Python (5 years), SQL (5 years)
- **Data & Analytics Tools:** Power BI (5 years), ETL (5 years), Snowflake, dbt, Microsoft Office Suite (5 years)
- **ML & Data Science:** Machine Learning (Supervised & Unsupervised), Deep Learning, Predictive Modeling, NLP, MLOps, Data Governance
- **Platforms & Methodologies:** DevOps, CI/CD, Agile (Scrum, Kanban), Docker, AWS, Big Data (Hadoop, Spark, Kafka)

Professional Experience

Banco Mercantil do Brasil | Belo Horizonte, MG

Data Scientist, Fraud Prevention | November 2024 – Present

- Engineer and orchestrate autonomous AI agents, designing and managing robust data and MLOps pipelines to automate complex workflows and enhance scalability.
- Develop and implement advanced algorithms for transactional fraud prevention, ensuring the integrity and security of payment systems.
- Build and train predictive fraud models using machine learning and AI, enabling proactive responses to emerging threats.
- Lead autonomous project management using DevOps practices, accelerating solution delivery and improving system reliability.

Data Analyst, Fraud Prevention | January 2023 – November 2024

- Monitored and analyzed key performance indicators (KPIs) to ensure the quality and effectiveness of the department's services.
- Developed and maintained a transaction monitoring system using Python and Power BI dashboards, applying statistical methods to assess operational risk and optimize security.
- Automated key departmental processes, significantly improving workflow efficiency and team productivity.
- Managed data governance by creating and maintaining tables, views, and procedures in Snowflake using Python, dbt, and SQL.

Data Analysis & Fraud Prevention Assistant | December 2021 – January 2023

- Provided critical support to the data analysis and fraud prevention teams, contributing to daily operations and strategic projects.
- Assisted in data preparation, cleaning, and preliminary analysis to support senior analysts and data scientists.

Intern | November 2019 – November 2021

- Gained foundational experience in the financial industry, supporting various teams with data-related tasks and process documentation.

Education

Postgraduate Specialization, Machine Learning Engineering | FIAP *Expected February 2025*

- Focuses on the development and training of Classic Machine Learning and Deep Learning models, including supervised, unsupervised, and reinforcement learning algorithms.
- Covers the implementation of solutions in On-Premise and Cloud environments, utilizing Big Data platforms (AWS, Hadoop, Spark, Kafka) and advanced techniques in NLP, Computer Vision, and Generative Models (GPT-4, Stable Diffusion).
- Emphasizes MLOps practices, including data pipeline construction, model deployment, containerization with Docker, and CI/CD.

Postgraduate Specialization, Strategic Data Management & Analysis | PUC Minas *August 2022 – October 2023*

- Provided in-depth knowledge of data-driven culture, data governance (LGPD/GDPR), and Agile Project Management (Scrum, Kanban).
- Developed skills in Advanced Analytics using Python, covering ETL/ELT processes, dimensional modeling, and the creation of Data Warehouses, Data Marts, and OLAP applications.
- Coursework included General Statistics, Corporate Intelligence, and Data Visualization techniques for transforming data into actionable insights through dashboards and storytelling.

Bachelor of Business Administration | PUC Minas *February 2018 – December 2021*

- Provided a strong foundation in strategic management, finance, marketing, and organizational processes, enabling a comprehensive understanding of how to apply data-driven solutions to solve complex business challenges.

Certifications & Licenses

- **Financial Markets** | Yale University (2023)
- **DBT & Snowflake** (2023)
- **Data Analysis and Power BI** (2023)
- **Data Analysis with Python** (2022)
- **Certified Yellow Belt, Lean Six Sigma** (2022)
- **Introduction to Data Science 2.0** (2020)
- **Certified White Belt, Lean Six Sigma** (2020)
- **Transforming Ideas into Business** (2015)

Languages

- **Portuguese:** Native
- **English:** Advanced