

# Alisson Silva

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## Experience

### DATA SCIENCE CONSULTANT

Sep 2024 - Current

Management Solutions GMS

São Paulo, Brazil

- Developed and optimized credit risk models, processing large datasets with PySpark along with other tools such as Databricks and SAS in order to assess default probabilities for financial institutions.
- Built and analyzed classification trees using scikit-learn and XGBoost, implemented other machine learning models using PyTorch and TensorFlow to evaluate credit risk metrics. Conducted exploratory data analysis and feature engineering to improve model accuracy and ensure training data quality.
- Contributed to the development of a Retrieval-Augmented Generation (RAG) model on LangChain for document validation, as well as an LLM based anomaly detector.

### JUNIOR DATA ANALYST

Mar 2024 - Sep 2024

Seed Digital SA

São Paulo, Brazil

- Analyzed data collected by digital sensors and organized the data in professional dashboards with Excel and Power BI to identify trends and generate business insights.
- Executed SQL queries to extract, clean, and manipulate datasets, enabling accurate reporting, trend analysis, and the development of data-driven recommendations.
- Built and refined forecasting models using Facebook Prophet to support business decision-making. Used statistical and machine learning techniques such as outlier detection and exponential smoothing to improve predictive accuracy and deliver best solutions to clients.

## Education

### UNIVERSIDADE ESTADUAL PAULISTA

Mar 2022 - Sep 2024

Master of Science (Physics)

São Paulo, Brazil

### UNIVERSITY OF BRASILIA

Aug 2017 - Dec 2021

Bachelor of Science (Physics)

Brasilia, Brazil

## Certificates

### AWS MACHINE LEARNING SPECIALTY

Apr 2025

- Understanding of machine learning principles and their implementation using AWS services. Able to design, train, and deploy models within the AWS ecosystem.

### IBM DATA SCIENCE PROFESSIONAL

Jul 2024

- Hands-on program covering data science fundamentals, including Python, SQL, machine learning, and data visualization. Built and deployed projects using real-world datasets and industry-standard tools.

## Additional

**Language Skills:** Portuguese (Native), English (C2), German (B2)

**Technical Skills:** Python, SQL, Spark, XGBoost, LightGBM, RAG, Random Forest, MLOps, Scikit-learn, AWS

**Volunteer Experience:** Tutor during the IV Summer School of ICTP-SAIFR for Young Physicists teaching students fundamentals of physics and algorithms for scientific research.

**Interests/Hobbies:** Marathon running, language learning, digital drawing and illustration.

- ♦ More info and side projects available at my personal website: [itsalissonsilva.github.com](https://itsalissonsilva.github.com)