Marcos **Barbosa**

DATA SCIENTIST · BACHELOR OF STATISTICS · UNIVERSITY OF BRASÍLIA

Brasília, DF, Brazil

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About me

Programming Languages	· R · Python · Scala · SQL · LaTeX
Big Data Technologies	· Git · Azure Databricks · Power BI · PySpark
Fluency in Languages	· Portuguese · English · Spanish

Experience

ESTAT Consultoria Estatística (Junior Enterprise)
Brasília, DF

JUNIOR CONSULTANT — *Mar. 2018 - Nov. 2018*

- Executed a total of five projects of statistical analysis, mainly with R language;
- Constantly used data visualizations tools from the ggplot2 library;
- Wrote documents with the results of those projects in LaTeX, which were delivered to the customers;
- Developed a dataset, with extensive use of regular expressions (RegEx), of scores and other informations about the students that signed to the Programa de Avaliação Seriada (PAS), which is the University of Brasília selection test;
- Learned to work with organization and efficiently with a team, in an enviroment of short deadlines and focused in achieving goals;
- Managed, monthly, the finances, through a return analysis and a registration of operational expenses.

Wiz Soluções e Corretagem de Seguros S.A. (Insurance Brokerage)
Brasília, DF

INTERN DATA SCIENTIST — *Mar. 2020 - Mar. 2021*

- Created a metrics panel for monitoring the performance of the XGBoost model of propensity to buy residential and life insurance, with R language and Power BI;
- Improved the XGBoost model (Extreme Gradient Boosting) of propensity to buy residential insurance, with Python, R and mainly Scala languages, in a Databricks notebook, with the aim to increase metrics, such as accuracy, precision and recall;
- Worked with the development of two clusterization models, one with R language and the other with Python, using PySpark, with the aim to create a customer segmentation analysis;
- Attended, constantly, meetings with managers to discuss about new tools and machine learning models that could benefit the company;
- Went through several occasions that I explained statistical and machine learning concepts in a simple and clear manner to employees from other areas.

ília digital (Digital Products Company)
Brasília, DF

MACHINE LEARNING ENGINEER I — *Jun. 2021 - Until now*

My main functions are, according to my work contract:
- Project and implement infrastructure, to orchestrate machine learning life cycles;
- Work with a variety of technologies, such as Spark functions, EMR, AWS Lambda, Step, etc;
- Create partnerships with data scientists to drive the machine learning model and experimental design areas;
- Currently, I am creating a data lake that gathers all the financial data of the company to, in the end, publish a dashboard for all the directors. The technologies used are AWS S3, AWS Lambda, AWS Athena, AWS Quicksight and a lot Python coding to clean and manipulate the data.

Education

University of Brasília
Brasília, DF

BACHELOR OF STATISTICS — *Mar. 2017 - Dec. 2021*

- IRA (Academic Performance Index, in english): 4,6/5.0, similar to GPA used in USA universities;
- Approved in 2° place through PAS (Programa de Avaliação Seriada), which is the University of Brasília selection test;
- Received the award of the most outstanding performance. Link: top-of-class.

Extracurricular

A study about ARIMA models and their predictive capacity for forecasting time series competition data
Brasília, DF

SCIENTIFIC INITIATION PROJECT — *Jun. 2019 - Sep. 2020*

- Wrote a script that applied automatic selection of ARIMA models, in all the 3003 time series present in the M3 Competition
- Learned to apply parallel computing with R language, to optimize code running time;
- Elaborated a scientific article with all the results found, under the guidance of a professor;
- Link: pibic-unb.

Tutoring in Computation in Statistics 2 course   *Brasília, DF*

<small>PAID TUTOR</small>   *Mar. 2019 - Jun. 2019*

- Helped other students in R programming, SQL queries and concepts about relational databases;
- Link: monitoria-unb.

Learn how to invest with the Austrian School: Introduction from Liberty Investimentos   *Brasília, DF*

<small>INVESTMENT COURSE</small>   *Jan. 2020*

- Learned how to build a investment portfolio and briefly about the Austrian Business Cycle theory;
- Link: investimento-ea.

Tutoring in Computation in Statistics 2 course   *Brasília, DF*

<small>PAID TUTOR</small>

- Helped other students in R programming, SQL queries and concepts about relational databases;
- Link: monitoria-unb.

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<small>INVESTMENT COURSE</small>   *Jan. 2020*