



# Thiago Marzagão

Data Scientist

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<https://github.com/thiagomarzagao>

## Profile

I have eight years of experience with high-impact, end-to-end data science projects, in different industries and countries.

I also have peer-reviewed publications in top econometrics journals and experience teaching statistics and machine learning at private and public universities.

You can find many of my projects and publications at  
<https://thiagomarzagao.com>

## Main Skills

Machine learning

Statistics

Python

SQL

AWS

GCP

## Recent Experience

Lead Data Scientist, Fitbod

2021-present

- Fitbod is an app that creates workouts tailored for you and I lead Fitbod's data science team. My team and I improve Fitbod's workouts, help design A/B tests, do R&D, and help the company make sense of data from a wide variety of sources. As team lead I prioritize projects, assess impact, evangelize a data-driven culture, recruit, and participate in Fitbod's overall business planning.

Data Scientist, Government of Brazil

2014-2021

- I trained a model that helps the Comptroller-General of Brazil choose which municipalities it will audit each year. The total auditable budget was US\$ 3.6 billion in 2018 alone.
- I co-developed and maintained CEREBRO, an app that mines government procurement data looking for evidence of bid rigging. CEREBRO uses a mix of machine learning, time series econometrics, and graph theory. CEREBRO screens all non-classified federal government bidding processes in Brazil. It was introduced in 2015. The total auditable budget was US\$ 5.9 billion in 2018 alone.
- I co-developed Trinity, a graph-based app that finds corruption networks.
- I trained a model that estimates the price of the real estate properties owned by the federal government.
- I created a bot that automates the background check of new government employees.
- I mined the database of covid economic relief to find fraud.
- I helped train and mentor data scientists in other government agencies.

Adjunct Professor, several universities

2016-2018

- I have taught stats and machine learning at a number of private and public universities in Brasília: UnB (machine learning; graduate level), IESB (machine learning; graduate level), IDP (statistics; undergraduate level).

## Education & Research

Ph.D. in Political Science

2010-2014

Ohio State University

I took lots of stats classes and in my dissertation research I used natural language processing to create the first machine-coded democracy index.

Online Coursework

*Udacity: Nanodegree Deep Reinforcement Learning (2018). Coursera: Deep Learning Specialization (2018), Machine Learning (2013), Introduction to Data Science (2013).*