THIAGO MARZAGÃO, Ph.D.
Head of Data Science

CONTACT

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PROFILE

- Senior data leader with 11 years of experience in different industries and countries

- Ph.D. from a leading U.S. research university

- Peer-reviewed publications in top econometrics journals

- Experience teaching graduate- and undergraduate-level courses in machine learning and statistics

- Guest in data science podcasts, speaker in data science conferences

SKILLS

- Machine learning
- Econometrics
- Statistics
- Python
- SQL
- GCP
- R

LANGUAGES

- English (fluent)
- Portuguese (native)
- Spanish (listen/read/speak)
- French (listen/read)

RECENT EXPERIENCE

Fitbod   2021 - PRESENT
Head of Data Science

- Fitbod uses AI to create personalized resistance training workouts.
- Set up Fitbod's A/B testing methodology, standardized it across all squads, evangelized the importance of a data-driven culture.
- Rewrote Fitbod's recommender engine in Python and migrated it server-side. That:
  - **Boosted A/B testing velocity by 8x**
  - Unlocked the use of more powerful AI models
- Designed and analyzed A/B tests of my own and oversaw A/B tests run by my team. Those A/B tests:
  - **Boosted conversion by up to 13%**
  - **Boosted strength gains by up to 6%**
- Oversaw my team in developing machine learning models.
  - Ex.: the world's first Large Workout Model (exercise recommender based on an LLM architecture)
- Oversaw my team in projects that led to **2 patent applications**.
- **Mentored** and promoted data scientists to senior roles.
- **Recruited** for my own team and helped Engineering recruit for data engineering and ML engineering positions.
- Helped Product **prioritize** projects.
- Participated in Fitbod's overall business planning.

Government of Brazil   2014-2021
Data Scientist

- Trained a model that helps the Comptroller-General of Brazil choose which municipalities to audit. **Total auditable budget was US$ ~3.6 billion.**
- Co-developed and maintained CEREBRO, an app that screens federal procurement data for evidence of bid rigging. **Total auditable budget was US$ ~5.9 billion.**
- Trained a model that estimates the price of government-owned real estate properties, to help the government auction them off.
- Mined the database of covid economic relief to find cases of fraud.
- Trained and mentored data scientists in multiple government agencies.

several universities   2016-2018
Adjunct Professor

- **Taught statistics and machine learning** at private and public universities in Brasília: UnB (machine learning; graduate level), IESB (machine learning; graduate level), IDP (statistics; undergraduate level).

EDUCATION

Ph.D. in Political Science   2010-2014
Ohio State Univesity

- Fulbright scholarship.
- Built the world's first machine-coded democracy index, using NLP.