

# MARUAN BAKRI OTTONI

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## EDUCATION

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**Master of Science in Computer Science**, Universidade de São Paulo, Brazil 2023 - Expected 2024  
Keywords: Machine Learning, Bioinformatics, Causal Inference, Generative Models

**Bachelor of Electrical Engineering**, Unicamp, Brazil 2018 - 2022  
GPA: 8.5/10

Relevant Postgraduate Coursework:  
Information Theory, Stochastic Processes, Bayesian Inference, Linear Programming, Machine Learning

## PROFESSIONAL EXPERIENCE

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**Data Scientist** September 2023 - Present  
CloudWalk Inc. *São Paulo, Brazil*

- Worked on the research and development front developing state-of-the-art models and feature analysis for possible improvements.

**Strats Summer Internship** January 2023 - March 2023  
Goldman Sachs *São Paulo, Brazil*

- Worked with the inventory management team in Bangalore, India and New York, USA developing a collateral optimization software.
- Mainly developed reports and analysis regarding the output of the linear optimization software.

**Quant Engineering Internship** October 2022 - November 2022  
UHedge Trading Solutions *Campinas, Brazil*

- Helped with mathematical analysis regarding the derivatives strategies.

## RESEARCH EXPERIENCE

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**Undergraduate Research 2021-2022** An introduction to Codes, Lattices and Applications in Signal Transmission (Written in Portuguese). Research project in mathematics trying to understand optimal ways to use lattices for reliable and secure transmission of information.

**Undergraduate Research 2022-2023** An Introduction to Information Geometry and Applications (Written in Portuguese). Research project in mathematics trying to understand how to use differential geometry in the context of statistical manifolds on machine learning cost functions.

## SKILLS

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**Programming Languages** Python, Matlab, C, Java  
**Tools** Shell Scripting, Git, Torch, Scikit-learn, TensorFlow, Linux

## RELEVANT EXTRACURRICULAR COURSES

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- Bahia Asset Management - Course in applied mathematical modeling for finance.
- Summer school at IMPA - Rio de Janeiro, Brazil during 2020. Courses: Mathematical Economics and Real Analysis.
- Summer school at IME-USP - São Paulo, Brazil during 2021-2022. Courses: Introduction to data science using jupyter notebook and introduction to machine learning.

## AWARDS AND LANGUAGES

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- Languages: Portuguese (Native), English (Fluent C2), German (Basic A2), French (Basic A2). CNPQ Scholarship 2021-2022, CNPQ Scholarship 2022-2023.