Gabriel Mello Silva

MACHINE LEARNING ENGINEER

São Paulo, Brazil

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About me

- Experience in **building and deploying** Machine Learning models and data visualizations.
- Passionate about **teaching** and highly value **efficient communication and organization** between teammates.

Experience

Neon · *São Paulo, Brazil*
SENIOR MACHINE LEARNING ENGINEER · *2022 Apr - current*

Neon · *São Paulo, Brazil*
MACHINE LEARNING ENGINEER · *2021 Oct - 2022 Apr*
- Create and implement processes, tools and infrastructure for Data Science team.
- Define CI/CD workflow and automate pipelines for Machine Learning models in production
- Help monitor models through statistical metrics, data drift, and concept drift
- Develop Feature Store and internal Python package for Data Science
- Promote good coding practices, project standards, documentation and versioning

Neon · *São Paulo, Brazil*
DATA SCIENTIST · *2020 Jul - 2021 Oct*
- Build Statistical and Machine Learning models and optimizations (e.g. churn prediction, optimized budget allocation)
- Communicate statistical analysis and insights to coworkers and stakeholder
- Develop tools and algorithms for Data Science lifecycle
- Integrate and serve solutions in the cloud
- Collaborate with coworkers into developing processes and good practices

Banco Safra · *São Paulo, Brazil*
DATA SCIENTIST · *2019 Jan - 2020 Jul*
- Implement and automate rules for Compliance on Market Trading
- Build statistical models (supervised and unsupervised learning), e.g. linear regression, decision tree algorithms, natural language processing (NLP)
- Communicate exploratory analysis and insights to non-technical analysts and managers
- Develop interactive dashboards and promote data-driven decisions
- Create and optimize ETL processes of local and external data

Sono Arquitectura · *Quito, Ecuador*
ACOUSTICAL CONSULTANT · *2018 Jan - 2018 Jun*
- Acoustical and noise control design of theaters, auditoriums and classrooms
- Build Room Acoustics models and simulations
- Measure and analyze acoustical parameters (according to ISO 3382)

Universidade São Francisco (USF) · *Itatiba, Brazil*
PROFESSOR · *2015 Feb - 2015 Jul*
- Physics and Calculus classes

Personal projects

2022 **melloc**: Personal blog about (Data) Science (website at `gabriel-msilva.github.io`)
`github.com/gabriel-msilva/melloc`

2022 **fractal-sets**: Optimized functions to plot Mandelbrot and quadratic Julia sets
`github.com/gabriel-msilva/fractal-sets`

2021 **covid-19**: Data analysis report of early COVID-19 data
`github.com/gabriel-msilva/covid-19`

2020 **relevant-facts**: Data Science project about relevant facts for insider trading identification
`github.com/gabriel-msilva/relevant-facts`

2019 **Where is the data scientist?**: Entry for *2018 Kaggle Machine Learning & Data Science Survey*
`www.kaggle.com/code/gabrielmsilva/where-is-the-data-scientist`

Education

Universidade Estadual de Campinas (UNICAMP)

Campinas, Brazil

Master in Acoustics

2015 - 2017

Universidade Estadual de Campinas (UNICAMP)

Campinas, Brazil

Licentiate in Physics

2013 - 2017

Universidade Estadual de Campinas (UNICAMP)

Campinas, Brazil

Bachelor in Physics

2009 - 2013

Courses

Coursera | DeepLearning.AI

Introduction to Machine Learning in Production

2021 Dec

Udemy | Academind

Clean Code

2021 Jul

Coursera | Stanford University

Machine Learning

2018 Oct

DataCamp

R Programmer

2018 Jul

DataCamp

Data Scientist with R

2018 Jun

DataCamp

Data Analyst with R

2017 Sep

Skills

Programming languages

Python, R, C#, SQL, Spark, Bash

Software development

source control (Git), CI/CD (GoCD, Jenkins), unit test, Python packages (PIP/Conda), documentation websites

Cloud computing

AWS, Docker, Kubernetes

Communication

presentations, data visualization, data analysis reports, dashboard design

Languages

Portuguese

English

Spanish

Native

Fluent

Advanced

Publications

Publications available for download at `www.researchgate.net/profile/Gabriel-Mello-Silva`.

1. Silva, G. M., Bertoli, S. R., & Maiorino, A. (2016). Study of energy acoustical parameters at audience area in a simulated multi-purpose hall with an articulated orchestra shell. *International Symposium on Musical and Room Acoustics (ISMRA)*.

2. Silva, G. M., Bertoli, S. R., & Maiorino, A. (2017). Processo de validação de modelo de simulação acústica de teatro de múltiplo uso com concha orquestral. *XXVII Encontro Da Sociedade Brasileira de Acústica (SOBRAC)*.