Marília Melo Favalesso

+55 45 99829-2469 | **marilia.melo.favalesso@gmail.com** | **linkedin.com/in/mariliafavalesso/** | **github.com/mmfava**

Technical Skills

Languages: Python, R, SQL
Libraries: Matplotlib, NumPy, Pandas, Plotly, Scikit-learn, Seaborn, Tidymodels, Tidyverse
Other tools: AWS, Azure DevOps, Docker, Git, GitHub, Google Cloud, Hadoop, Linux, MLFlow, Quarto
Keywords: Machine Learning, Statistical Analysis, Big Data, CI/CD, Versioning, Data Preparation and Visualization, GIS

Experience

Data Scientist | Hospital Israelita Albert Einstein

Remote (Brazil)

2022 - Atual

Big Data

- Developed and implemented predictive models and clinical outcome indicators, which have proven valuable for risk stratification, personalized patient treatment, and efficient resource allocation.
- Applied statistical and machine learning techniques to identify anomalous data and detect irregularities in the Brazilian Unified Health System (SUS). The proposal was approved, allowing for the development of models for production.
- Created interactive dashboards and reports to enhance data interpretation and support evidence-based decision-making.
- Organized courses and initiatives to foster professional development and enhance scientific knowledge within the company.
- Contributed to scientific projects, leading to the writing and submission of scientific articles for publication.'

Biostatistician | Western Paraná State University

Cascavel (Brazil)

2016 - 2018

What is Your Question?

- Co-created and implemented the QESP biostatistics consulting project, which served 60 researchers from diverse fields between 2016 and 2018. QESP raised R$58,000 during this period, funding scholarships for both undergraduate and graduate members.
- Conducted 18 biostatistics consultations at QESP, utilizing advanced techniques including mixed and generalized linear models, autoregressive models, and multivariate analyses.
- Performed statistical tests, sample size calculations, effect size analyses, and statistical power analyses for over 10 projects.
- Optimized decision-making processes at a private hospital by reviewing and adjusting KPIs that were inadequately based on means. After analyzing the data distribution, I proposed using median or mode as alternative indicators, leading to improved decision accuracy.
- Taught R Programming and Biological Data Analysis courses to over 50 undergraduate and graduate students in Biology and Health, training them in programming, biostatistics, multivariate techniques, and other relevant skills.'

Education

Doctor of Philosophy | Ecology, Genetics and Evolution

Buenos Aires (Argentina)

2018 - 2024

Universidad de Buenos Aires
Coursework: quantitative remote sensing for environmental issues, bayesian statistics in ecology, epidemiology fundamentals, time series analysis, advanced health and environmental modeling, panoramic epidemiology techniques, biotoxinology overview

Master | Environmental Sciences

Cascavel (Brazil)

2016 - 2018

Universidade Estadual do Oeste do Paraná
Coursework: multivariate data analysis, advanced biostatistics, basic biostatistics, numerical ecology, theoretical ecology, geostatistics (auditor), niche modeling and species distribution, environmental quality and natural resource management

Bachelor | Biological Sciences

Palotina (Brazil)

2010 - 2014

Universidade Federal do Paraná
Coursework: mathematics, biostatistics (I and II), numerical methods in ecology, ecology, remote sensing, and geoprocessing

Technician | Environmental Sciences

Cascavel (Brazil)

2005 - 2009

Centro Estadual de Educação Profissional

Languages

Portuguese (Native), **Spanish** (Intermediate) and **English** (Intermediate)