Mariana Freitas
Undergraduate Student in Statistics – UFES (2022 – Present)
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About

Experience with statistical modeling, survival analysis, and machine learning applied to health data. Skilled in R and Python for data analysis, predictive modeling, and development of interactive applications. Focus on public databases, and communication of statistical results through dashboards.

Skills & Languages

Languages: Portuguese (native), English (advanced)
Tools: R, Python, Shiny, LATEX
Topics: Data analysis, Visualization, Statistical modeling, Survival analysis, Machine learning, Shiny Dashboards

Experience

Undergraduate Research – FAPES
2024–Present
Research on machine learning techniques for survival analysis using oncological data. Focus on support vector machines adapted to censored data and simulation-based model evaluation.

Undergraduate Research – OOBr
2023–2025
Development of an interactive platform for maternal and child health monitoring. Responsible for dashboard implementation, data integration from public sources, and interface design for data-driven decision support.

Undergraduate Research – Brazilian Obstetric Observatory (OOBr)
2022–2023
Conducted statistical analyses on maternal health outcomes using public data. Created interactive dashboards and contributed to the development of tutorials for statistical education.

Teaching Assistant – UFES
2023–2024
Supported students in understanding core concepts of probability and statistics. Assisted in applied problem solving using R.

Courses & Events

Lecturer – Daslab • 2025
Presented a lecture on Support Vector Machines and Random Machines applied to Survival Analysis, including examples on oncological data.

Lecturer – RLadies Vitória • 2024
Organized and taught an introductory R workshop for Chemistry students, covering basic syntax, manipulation, and visualization.

Poster Presentation – 66th RBras • 2022
Presented a study on vaccination effects in obstetric COVID-19 outcomes using segmented regression models to evaluate impact over time.

Lecturer – Data Science Workshop • 2022
Taught the creation of interactive dashboards for health data analysis. Introduced app structure, reactivity, and design of user interfaces.