Gabriel Miranda

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Statistician with expertise in data science, machine learning, and data visualization. Graduated from Universidade Federal Fluminense, where I completed a final paper on NLP using Python and gained experience in undergraduate research and teaching as a monitor with a focus on the R language.
Professionally, I have built a strong foundation in data analysis, machine learning, and programming. As a Data Scientist at Epimed Solutions, I develop machine learning models and perform data analysis in the health tech sector. Previously, I interned at MindTek, specializing in BI and Python web development, and worked as a Planning Assistant at Fast Shop Marketplace, where I applied machine learning techniques and worked extensively with Python and SQL.
Proficient in Python, SQL, R and Power BI, with experience in building predictive models, data analysis and data visualization. Fluent in English and Portuguese, with intermediate proficiency in Spanish.

Skills

- **Technologies:** Python, SQL, R, Git, Power BI and Office.
- **Skills:** Machine Learning, Statistical Modeling, Programming and Agile Project Management.
- **Languages:** Portuguese(native), English(fluent) and Spanish (intermediate).

Education

Fluminense Federal University, Bachelor in Statistics 2016 – 2022

Experience

Data Scientist, Epimed Solutions – Rio de Janeiro, Brazil ago 2025 – Present

- Maintenance and scripting machine learning models in R for ICU KPIs.
- Creating an internal MLOps structure adapted to the company needs.
- Development of Power BI dashboards for monitoring KPIs related to hospital management.
- Maintenance and scripting in R and SQL to data analysis.
- Tools Used: R, SQL, Power BI, Git, Excel.

Marketplace Planning Assistent, Fast Shop – São Paulo, Brazil out 2021 – jul 2022

- Development of machine learning model in Python TensorFlow for subcategorizing products based on their name often speeding up the registration of new products.
- Maintenance and scripting in Python and SQL related to product registration and API requests to create database.
- Tools Used: Python, R, SQL, Excel, Power BI and Postman.

Publications

Update on the Epimed Monitor Adult ICU Database: 15 years of its use in national registries, quality improvement initiatives and clinical research. 2024

Marcio Soares; Lunna Perdigão Borges; Leonardo dos Santos Lourenco Bastos; Fernando Godinho Zampieri; Gabriel Alves Miranda; Pedro Kurtz; Suzana Margareth Lobo; Lucas Rodrigo Garcia de Mello; Gastón Burghi; Ederlon Rezende et al.

doi.org/10.62675/2965-2774.20240150-en

Projects

Survey of socioeconomic conditions and access to remote resources of UF students

- Conducted comprehensive quality analysis of undergraduate and graduate student databases at Universidade Federal Fluminense (UFF), ensuring data accuracy and reliability for research purposes.
- Designed and calculated representative samples using advanced sampling techniques, controlling for sampling error and maintaining a 95% confidence level to ensure robust survey results.
- Organized and validated large datasets from surveys of undergraduate and graduate students, implementing data cleaning and validation protocols to enhance data integrity.
- Developed R scripts for automated data analysis, streamlining the processing and interpretation of survey results to support data-driven decision-making.
- Authored a detailed technical report summarizing key findings and insights from the surveys, presenting actionable recommendations to stakeholders in a clear and professional format.
- Tools Used: R (data analysis and scripting), Excel (data organization and validation), LaTeX (technical report writing).

Research Initiation Project: Introduction to Machine Learning in R

- Studied the primary concepts and main machine learning tools and libraries in R and Python.
- Developed Hypothesis Testing material in Python.
- Tools Used: R, Python, HTML and LaTeX.