

ADMIR CESAR DE OLIVEIRA JUNIOR

DATA | STATISTICS

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📍 Cascavel, Paraná, Brazil

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PROGRAMMING LANGUAGES

- Python
- R
- SQL
- C++

SKILLS

- Machine Learning
- Statistics
- Data Viz
- Git
- Metabase
- Excel

EDUCATION

- **Biological Sciences**
Federal University of Paraná
Feb 2023
- **Mathematics**
University of Paraná
On going
- **M.Sc. in Neotropical Biodiversity**
Federal University of Latin-american Integration
On going

ADDITIONAL EDUCATION

- Deep Learning with PyTorch
- Apache Spark with Python
- Data Analysis and Visualization
- PostgreSQL
- Julia for Data Science

LANGUAGES

● English

● Portuguese

● Spanish

RESUME

Specialist in analyzing, understanding and modeling complex systems and situations, often quantifying qualitative attributes, all with good communication and visualization skills. Researcher in Machine Learning and Predictive Statistical Models for Ecological Modeling. Experience in statistics, data analysis, data science, and machine learning.

PROJECTS

- **Skuld: a patch for sales forecast in holidays**
 - Problem: inaccurate holiday sales forecasts causing waste and financial losses.
 - Analyzed historical holiday sales data for each product.
 - Developed correction-classes system to refine forecasts.
 - Reduced prediction errors by approximately 70%.
 - Mitigated errors across primary products, enhancing operational efficiency.
- **Boxer: a packaging solution**
 - Problem: logistics issue with box allocation for daily orders.
 - Aggregated and cross-referenced non-standardized spreadsheets.
 - Constructed a database linking box and items quantities in each order.
 - Trained a deep neural network using the constructed database.
 - Developed a model with approximately 90% accuracy.
 - Enhanced packaging logistics for the company by optimizing box distribution across orders.
- **ADM: a toolbox for modelling species abundance**
 - Problem: there is no available package to model abundance
 - Writing a R package optimized to model species abundance
 - It features several machine learning and statistics modelling techniques, some novelty for the research field

WORK EXPERIENCE

- **Researcher | UNILA | Abr 2023 - present**

Development of ecological niche modeling techniques with deep learning; conducted as part of the master's program in Neotropical Biodiversity at the Federal University of Latin American Integration.
- **Statistics and Data Consultant | Mar 2023 - present**

Consulting on statistics and data, assisting throughout the entire process, from data collection, structuring, analysis, testing, to the graphical visualization of results.
- **Data Science Intern | FREXCO | Dec 2022 - Mar 2023**

Extraction, processing, and analysis of multivariate and time series data related to food production, sales and waste; development and monitoring of performance indicators; development and monitoring of machine learning and statistical models.