Enzo Laragnoit Fernandes

Computer Science | Machine Learning | Data Science

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EXPERIENCE

Mid-Level Data Scientist   May 2024 — Present
Robbyson Systems   São Paulo

- Designed and implemented a Python package for data analysis on GitLab repositories data to assess efficience and development cost.
- Analyzed data from behavioral projection algorithms in order to ensure quality and consistency.

Tools: *Python3, Pandas, Matplotlib, Git, Jupyter Notebook, MongoDB, REST APIs*

Junior Data Scientist   Jan. 2022 — Mar. 2024
Big Data Assessoria Empresarial S/A   São Paulo

Joined as an Intern Data Scientist (Jan. 2022 – Oct. 2022), focusing on a client-specific recommendation system. As a Junior Data Scientist, transitioned to the Forecast and Product Operations divisions, where I developed and maintained Machine Learning-centered pipelines.

- Contributed to the development of a recommendation system for a market-leading company in the civil construction sector.
- Idealized and implemented a quality assurance Python framework to automate artifacts validation processes.
- Contributed to codebases with implementation, reviews, maintenance, refactoring and testing.
- Conducted and presented data analyses regarding both client data and the deliverables.
- Developed a price-elasticity modeling approach using Panel Data Regression and Supervised Machine Learning in order to optimize production models.
- Orchestrated ETL and Machine Learning pipelines with Apache Airflow.

Tools: *Python3, Pandas, Scikit-Learn, Numpy, Matplotlib, Git, Apache Airflow, Docker, AWS (S3, EC2), PostgreSQL, Jupyter Notebook*

Researcher in Applied Machine Learning   Sep. 2020 — Sep. 2021
São Paulo Research Foundation (FAPESP)   Sorocaba

Granted funding for the scientific project proposal (grant #2020/09607-9) in the project "Solar Radiation Forecasting using Machine Learning" for the period of 12 months.

- Conducted and showcased a systematic literature review.
- Elaborated scientific reports regarding the progress of the research, methodology and the results obtained.

Links: `https://bv.fapesp.br/56754`

PROJECTS

Solar Radiation Forecasting using Machine Learning   Sep. 2020 — Sep. 2021
Project regarding use of Machine Learning techniques to obtain models capable of forecasting hourly solar radiation from historical meteorological data 60 minutes in the future. The results obtained were compared to a spatial interpolation technique and an empirical model in order to assess the proposed methods.

- Built a complete data pipeline to pre-process all information from automated download routines to site-specific data normalization.
- Implemented data imputation with Inverse Distance Weighting-based interpolation to artificially reconstruct missing training values.
- Implemented fully automated train/evaluation routines and model selection procedures.
- Configured the laboratory infrastructure to use the Dask distributed processing framework.

Link: `github.com/lfenzo/ml-solar-sao-paulo`   **Tools:** *Python3, Pandas, Scikit-Learn, Numpy, Optuna, Matplotlib*

Impostor.jl – The Highly Versatile Synthetic Data Generator   May 2023 — Present
Impostor is a Julia package which facilitates the generation of synthetic tabular data using a flexible and concise API. Built from scratch upon Julia's *Multiple Dispatch* paradigm with simplicity in mind, Impostor is the concretization of a software engineering project from its data back-end and API design; to its packaging, registration and distribution via the Julia General Registry.

Link: `github.com/lfenzo/Impostor.jl`   **Tools:** *Julia, DataFrames.jl, Documenter.jl*

EDUCATION

Computer Science Bachelor's, Federal University of São Carlos (UFSCar), GPA: 8.93/10   Mar. 2018 — Oct. 2022

SKILLS

Programming: Python3, Julia, C/C++

Cloud: Amazon Web Services (S3, EC2)

Others: Latex, Markdown, Obsidian

Tools: Linux, Git, Matplotlib, Pandas, Numpy, Scikit-Learn, Docker, Apache Airflow, Jupyter Notebooks, Optuna

Languages: Portuguese (Native), English (Fluent), French (Basic), German (Basic)