# Lucas Tramonte

 github.com/LucasTramonte    Portfolio    LucasTramonte    lucas.tramonte@student-cs.fr

## EXPERIENCE

**FlexSim**                                                             Feb. 2023 – Apr. 2023
*Data Science Intern - Summer Job*

- Conducted an analysis of possible no-code Machine Learning frameworks, which resulted in RapidMiner being identified as the best viable option due to its ease of use and available features. Instructed the ML engineers of the company on how to use this tool, and the tool adoption resulted in a 30% reduction in the number of tickets the department receives quarter-over-quarter
- Automated data import in the software, enabling the team to use the software without crashes when handling large datasets, by integrating SQL queries with simulation models using C++.

**Eldorado Institute**                                                  Feb. 2022 – Sep. 2022
*Data Science Intern in an R&D project funded by Motorola*

- Implemented data pre-processing routines and tested machine learning models to detect faults in mobile phone batteries.
- Improved fault detection precision to 73% by reducing false positives, optimizing analysts' time and resources by 27% through the use of Python and interpretable machine learning techniques, such as SHAP (SHapley Additive exPlanations).

**Undergraduate research in Machine Learning**                          Sep. 2022 – Aug. 2023
*Funded by National Council for Scientific and Technological Development*

- Exploring SHAP and LIME (Local Interpretable Model-agnostic Explanations) methods for interpreting machine learning predictions in diagnosing SARS-CoV-2 from symptoms - github

## EDUCATION

**École CentraleSupélec, Université Paris-Saclay**                                    2023 - 2025
*Master in Engineering Degree. Final year specialization in Artificial Intelligence.*    *GPA: 3.5/4.0*
**State University of Campinas**                                                       2020 - 2026
*BS in Industrial Engineering*                                                        *Grade: 9.4/10*

## PROJECTS

**SARS-CoV-2 Maternal Impact**
- Implemented data processing and statistical analysis of scientific research on the impact of different SARS-CoV-2 variants on maternal outcomes (ICU admission and mortality) in Brazil, using Python and Power BI - github

**MDVRP-Magazine-Luiza**
- Optimization project for the Brazilian retail company Magazine Luiza by addressing the Multi-Depot Vehicle Routing Problem (MDVRP), developed with Python and the PuLP library - github

**Optimization-AirFrance**
- Developed an optimization project for AirFrance to enhance passenger distribution and satisfaction, using Python and the Gurobi optimization solver - github

## AWARDS

**BRAFITEC Excellence Scholarship**                                     Aug. 2023
- Scholarship for a double degree at CentraleSupélec, awarded by the Brazilian government to students with outstanding academic performance.

**International Mathematical Olympics without Borders**                 Apr. 2019
- My team and I were awarded the bronze medal for national performance at the competition.

## SKILLS

**Programming Languages**: SQL, Python, C/C++
**Tools**: MySQL, AWS, PowerBI