Leonardo Ferreira da Silva

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Education

UNICEN - National University of the Center of the Buenos Aires province   **Olavarría - Bs As.**
PhD in Engineering   **2020 - Present**
Thesis in final correction process. Focused on mathematical modelling using Python and MATLAB to assess dynamic behavior and design of three-wheeled vehicles.

UNICEN - National University of the Center of the Buenos Aires province   **Olavarría - Bs As.**
Electromechanical engineering   **2005 - 2014**

Experience

Outlier - SCALE AI   **Remote**
AI training engineer - (Quality Assurance Specialist – Code Reviewer)   **May 2024 - Present**

- Apply engineering expertise and PhD-level problem-solving skills to review and validate code for training LLMs, ensuring correctness, clarity, and alignment with best practices in machine learning and software engineering.
- Perform in-depth QA on code written primarily in Python, with exposure to JavaScript, Bash, and GO, applying robust testing techniques and debugging logic-intensive workflows.
- Develop and maintain custom scripts to support validation pipelines, leveraging tools like Git, Docker, and Linux shell scripting to automate tasks and ensure consistency across large-scale, multilingual datasets.
- Collaborate asynchronously with distributed, multidisciplinary teams, contributing to scalable alignment and RLHF processes through reproducible, containerized development environments.

Coderhouse - Henry - Desafío Latam   **Remote**
Data Science & Analytics Professor   **Apr 2024 - Present**

- Professor in online education platforms across Latin America, delivering courses in Data Science and Data Analytics, from 10 to 200 people. Statistics, Mathematical foundations, Machine Learning, Deep Learning and LLM's.

UNICEN – cTAE (Center for Environmental and Energy Technologies)   **Olavarría, Bs As.**
Researcher & teacher   **Aug 2017 - Sep 2024**

- Applied research as part of a PhD program, focusing on dynamic modeling and simulation of vehicle behavior using Python and MATLAB.
- Developed mathematical models to analyze energy and mechanical systems, integrating sensor data and physical principles into computational simulations.
- Taught numerous university and postgraduate courses across various subjects (mechanics, thermodynamics, computational modelling).
- Contributed to academic publications and collaborative research projects at the intersection of environmental technologies, energy systems, and computational modeling.