





Vinicius Andrade Nunes de Moraes

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Skills

- Python | R | Matlab | SQL | Machine Learning | Deep Learning | Tableau | BigQuery | Microsoft Excel | Google Sheets | English, Portuguese
- All professional proficiency or above

Experience

Deep Learning Engineer

LXL Sistemas

12/2022 - Current

- Design and development of **One Dimensional Convolutional Neural Network (1D CNN)** for fault detection and classification in Induction Motors from its Electrical Current signals, allowing it to work with **raw signals**, which do not require pre-processing procedures.

Machine Learning Engineer

LabTDF

05/2022 - 12/2022

- Researcher at the Tribology and Railway Dynamics Laboratory (LabTDF) at the Federal University of Espirito Santo (UFES) in Brazil.
- Application of Machine Learning algorithms with Python Outlier Detection (PyOD) library to detect outliers in data from an instrumented wagon from the company Vale in order to find out the locations where the railway needed maintenance.

Education

Master of Electrical Engineering

Federal University of Espirito Santo

Vitória, ES, Brazil

09/2022 - 09/2024

- Master's degree in Electrical Engineering

Bachelor of Mechanical Engineering

Federal University of Espirito Santo

Vitória, ES, Brazil

06/2016 - 09/2022

- Major in Mechanical Engineering

Others

- **Control of Mobile Robots (Georgia tech):**
This course is entirely in English and focuses on applying modern control theories to make robots move safely and efficiently. - (03/2020 - 05/2020)
- **Python Fundamentals for Data Analysis 3.0 (Data Science Academy):**
It presents the basic concepts and fundamentals of the Python programming language. It is possible to test knowledge and apply it in Data Science projects. - (06/2021 - 05/2022)