

# Fernández Román, Joel

Data Scientist | Data Engineer | Software Developer



## SUMMARY

I work with Python on data science and machine learning projects, mainly focusing on data preprocessing, feature engineering, and model development.

I'm motivated by real-world applications where data can lead to meaningful insights or impact.

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in : [Joel Fernández Román](#)

## Experience



Feb 2025 – *present*

**Data Engineer at MiceLab - Universitat de Girona**

### SUMMARY

Data engineering and software development in the MiceLab research group. Two main projects were developed and presented as part of my Master's Thesis.

- Designed and developed a modular Python library to support research workflows with tools for preprocessing, visualization, and report generation.
- Led the development of a data ingestion framework to standardize heterogeneous diabetes-related datasets into a unified structure for consistent analysis.

Feb 2023 – Jul 2024

**Junior Data Scientist at [mjn-neuro](#)**

### SUMMARY

Software development in Python, focused on data analysis and training of artificial intelligence algorithms.

- Developed a GUI application for the [VISOR Project](#), handling real-time brain signal input from a wearable device.
- Algorithm developer in SERAS, focused on real-time evaluation.

## Education



Oct 2024 – Jul 2025

**Master's Degree in Data Science and Artificial Intelligence**  
from **Universitat de Girona**

- Machine Learning (9.1) | Data Acquisition & Preparation (9.5)

Sep 2019 – Jun 2023

**Bachelor's Degree in Computer Science**  
from **Universitat de Girona**

- My Bachelor's Thesis, titled 'Collection and Analysis of Financial Information for Stock Market Performance Prediction,' received a grade of 9.49.

## Languages



**Spanish :** Native

**English :** Intermediate (B2)

## Skills



**Python :** ★★★

Software architecture

Software design patterns NumPy

Pandas PyTest Jupyter Notebook

**Machine Learning :** ★★★

Scikit-learn XGBoost TensorFlow

Model Evaluation

Hyperparameter Tuning

Supervised Learning

Unsupervised Learning

**Data Engineering :** ★★★

ETL Data Modeling Flask Fast API

Docker Pydantic SQL Databases

**Technical Writing :** ★★★

Technical Documentation LaTeX

MkDocs