

# 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, focused on ETL, data modeling, and standardization. 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 aimed at non-technical users.
- Led the development of a data ingestion framework to standardize heterogeneous diabetes-related datasets into a unified structure for consistent and reproducible analysis.
- Defined data models to ensure maintainability, interoperability, and documentation clarity.

Feb 2023 – Jul 2024

**Data Engineer Jr. at [mjn-neuro](#)**

### SUMMARY

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

- Lead developer for the VISOR graphical application (backend & frontend).
- VISOR Project: [https://www.iiia.csic.es/en-us/research/project/?project\\_id=234](https://www.iiia.csic.es/en-us/research/project/?project_id=234)
- Algorithm developer in SERAS, focused on real-time evaluation and handling mobile alerts for epileptic seizures.

## Education



Oct 2024 – Jul 2025

**Master's Degree in Master's in Data Science and Artificial Intelligence**  
from **Universitat de Girona** with GPA of B+

Sep 2019 – Jun 2023

**Bachelor's Degree in Computer Engineering**  
from **Universitat de Girona** with GPA of B

## Languages



**Spanish :** Native  
**English :** Intermediate

## Skills



**Python :** ★★★

Software architecture

Software design patterns NumPy

Pandas PyTest

**Machine Learning :** ★★☆☆

Exploratory Data Analysis

Supervised Learning

Unsupervised Learning

Data Preprocessing

**Data Engineering :** ★★☆☆

ETL Data Modeling Flask Fast API

Docker Pydantic SQL Databases

**Documentation :** ★★☆☆

Technical Documentation Latex

MkDocs

**Soft Skills :** ★★★

Teamwork Public Speaking