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.

✉ : joel.fernandez.roman@gmail.com

🏠 : https://joelfernandezroman.github.io/

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

Junior Data Scientist 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
- 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