

MANEL GIL SORRIBES

AI Engineer | Physicist | ML Master's Graduate

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PERSONAL STATEMENT

AI Engineer and Data Scientist specializing in Deep Learning and LLMs, with expertise in transformers, model fine-tuning, and generative AI. At Nostrum Biodiscovery, I develop and optimize state-of-the-art deep learning models, while my previous work at the European Joint Research Centre focused on sequence classification using DL. Passionate about AI-driven innovation, cross-functional collaboration, and cutting-edge research.

EDUCATION

Master in Intelligent Interactive Systems

Universitat Pompeu Fabra

📅 2023

📍 Barcelona, Spain

Related courses: Machine Learning, Natural Language Processing (NLP), Deep Learning.

Bachelor in Physics

Universitat de Barcelona

📅 2020

📍 Barcelona, Spain

Mention in theoretical physics

WORK EXPERIENCE

Artificial Intelligence Engineer

Nostrum Biodiscovery · Jan 2024 - Present

- Developing and optimizing **deep learning models** for **protein-ligand interaction prediction**.
- Researching and implementing **transformers and generative AI techniques** to enhance model performance.
- Collaborating with computational and experimental teams to integrate AI models into real-world applications.

Business Intelligence Consultant | Data Engineer

Capgemini · Mar 2022 - Dec 2023

- Designed and developed **ETL solutions** for a major European energy company.
- Worked on **data integration, transformation, and automation**, using **PL/SQL, Informatica PowerCenter, and SAP**.
- Assisted in **business intelligence workflows**, ensuring efficient data pipelines and reporting.

AI & ML Intern - Genomics Research

European Joint Research Centre & Universitat Pompeu Fabra · Apr 2023 - Jul 2023

- Applied **deep learning and machine learning techniques** for **genomic sequence classification**.
- Worked with **large-scale biological datasets**, implementing **data preprocessing, feature extraction, and model optimization**.
- Developed and evaluated **deep learning architectures** for structured and unstructured sequence data.

BI Consultant | Data Engineer

NTT Data · Jun 2020 - Mar 2022

- Developed **data pipelines** and **business intelligence solutions** for enterprise applications.
- Integrated **data from Oracle Data Warehouse to Salesforce**, optimizing data flow efficiency.
- Supported predictive modeling tasks by enabling **structured data processing and transformation**.

SKILLS

Programming & Machine Learning

- **Deep Learning:** PyTorch, TensorFlow, Transformer Models, Generative AI
- **NLP:** BERT, GPT-3/4, Hugging Face Transformers
- **Data Engineering:** SQL, Data Preprocessing, ETL Pipelines
- **Cloud & Deployment:** GCP, AWS

Software

- Informatica PowerCenter, Informatica Cloud, Google Cloud, Salesforce: Sales Cloud, Microsoft Office, LaTeX

Languages

- Spanish (mother tongue), Catalan (mother tongue), English: fluent (certificate B2), Italian: beginner

PUBLICATIONS

- "Gut Microbiome Analysis for Health Assessment," final master's thesis project, published and presented at the HCist Conference, November 2023. Available online at ScienceDirect.
- "ICML Topological Deep Learning Challenge 2024: Beyond the Graph Domain," to be published in PMLR through the *GRaM Workshop at ICML 2024*. Preprint available at arxiv.

CERTIFICATES

- Google Cloud - Cloud Digital Leader
- IICS - Cloud Data Integration Partner Bootcamp (Champion Certificate)

LEARNING

- Bachelor Final Thesis (Study of the Blume-Emery-Griffiths Phase Separation Model)
- Computer Vision Basics (University at Buffalo) - Coursera