



**Marc
Nebot**
Computer Scientist

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Barcelona, Ripollet

marc-nebot-moyano

Work Experience

Artificial Intelligence Engineer

April 2024 - Now

Lanaces Telecom S.A. , Barcelona

- Enhanced surveillance accuracy with advanced video analytics using deep learning.
- Optimized and deployed DL models on IoT edge devices with TensorRT, pruning, quantization, and NAS.
- Built ML infrastructure from scratch for robust AI deployment.
- Engineered back-end systems with Python, Rust, and C++.
- Maintained front-end in Angular (Typescript).

Artificial Intelligence Engineer

October 2023 - February 2024

Gieseck + Devrient Mobile Security Iberia S.A. , Barcelona

- Designed LLMs from scratch with Python and PyTorch, optimizing performance.
- Developed scalable LLM services with Docker, ensuring reliability; used GitHub for version control.
- Led AI projects with Agile methodologies, managing timelines and deliverables.
- Applied advanced AI techniques (BERT, GPT) to enhance LLM solutions.

Digital Assurance Intern

November 2022 - May 2023

PricewaterhouseCoopers International Limited, Barcelona

- Reviewed and analyzed technological infrastructure and ERP systems.
- Assessed business processes and controls for efficiency and compliance.
- Processed massive datasets using SAS Analytics for Big Data projects.
- Evaluated cybersecurity environments, identifying and mitigating related risks.
- Developed digital solutions for auditing data and financial processes.

Researcher Intern

April 2022 - October 2022

Universitat Politècnica de Catalunya - Collaborator on Talent Training Program, Barcelona

- Studied ML tools for project implementation: cross-validation, data visualization, preprocessing.
- Researched and reviewed papers on dimensionality reduction, mathematical optimization.
- Conducted QA testing using Python to ensure model accuracy.
- Applied classification and prediction techniques: SVC, SVR, KNN, K-means, Decision Trees, Random Forests, Neural Networks.

Education

Computer Science

2019 - 2024

Universitat Politècnica de Catalunya - FIB, Barcelona

Specialization in computing, covering subjects related to Artificial Intelligence and Data Science. This included coursework on machine learning, data visualization, statistical analysis, and advanced algorithms.

Beijing Institute of Technology Summer School

2023

Beijing Institute of Technology, China

One summer at one of the most prestigious universities in China, I participated in the "Hands-on Learning for Emerging Technologies in Electronics Engineering, Artificial Intelligence" program. I learned how to model and design projects using AI models running on MCUs.

This experience involved studying emerging technologies and the practical application of AI in various innovative projects.

Languages

- **Spanish:** Native
- **Catalan:** Native
- **English:** C1 Level (British Council School)

Skills

- **Coding Languages:** Python, C++, R, Java, Rust
- **AI/ML:** TensorFlow, PyTorch, KNN, BERT, GPT, SVC, SVR, K-means, Decision Trees, Random Forests, deep learning, neural networks.
- **Data Science:** SAS Analytics, Pandas, data visualization, preprocessing, cross-validation
- **Web:** API development, Angular (TypeScript)
- **DevOps:** Docker, Git
- **Project Management:** Agile methodologies

Projects

Generative Artificial Tabular Data Methods

Final degree project based on generative artificial intelligence methods to generate synthetic data. <https://github.com/marcnebotmoyano/TFG-FIB-GenerativeArtificialTabularDataMethods>