# Guillermo F Muñoz

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My portfolio: gmuo.github.io

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**Graduate in Bachelor's Degree in Data Science** at Polytechnic University of Valencia (UPV) with experience in creation and implementation of **Machine Learning**, **Deep Learning** and **AI** models, as well as data acquisition, processing, analysis and visualization.

Notable university projects: COVID-19 mortality **binary classification** (2021), **Kaggle** competitions on **image recognition** (2022) and **natural language processing** (2023).

I was in an **Erasmus** exchange in the full academic year 2022-2023 in **Norway**, **NTNU** university.

## Experience - Internships

### ITI    March 2024 - July 2024

**Client company project:**

- Indirect dealings with a client company.
- Use of **Python** for database cleaning, exploratory analysis and visualization using **matplotlib**, **plotly** and **ggplot**.
- **Feature extraction**.
- Anomaly detection with **unsupervised analysis** techniques.
- Additional data integration with **APIs**.
- Report writing using **Github** and **Overleaf**.

Internal company project **- Bachelor's thesis:**

- Objective: to improve the results of an **Artificial Intelligence** using **RAG**.
- Research on RAG architectures and techniques such as Chunking, **Prompt Engineering**, Re-ranking, etc.
- Compilation and use of **open source** models of Embeddings and **LLMs**, mainly those for the Spanish language.
- **Implementation of a RAG** with the Chroma embeddings database.

### Neil (Lanzadera)    Feb 2024 - July 2024

**Machine Learning project on soccer:**

- Machine Learning project with a client from scratch.
- Database transformation (joining Excel documents, **missing values**...) with **Python** and feature extraction with the help of biomechanics professionals.
- Trying and implementing **multi-target regression** Machine Learning models with Scikit-Learn library (**Random Forest, Neural Networks, SVM, Gradient Boosting Machines...**).

**Internal company project:**

- Fixing bugs and improving the company's product (an App).
- Slight **Back-end** learning by using **Typescript**, Python and cloud tools like **Firestore, Google Cloud Functions** and **Twilio**.
- **Leading other members** and dealing directly with customers.

## Personal Skills and languages

### Hard Skills

| Machine Learning | Deep Learning | Python | **R** | **SQL** | ETL | PySpark |
| Multivariate Statistics | Linear Algebra | **PowerBi** | Github | | **Amazon Web Services** | |
| **OpenAI** | **Fine-tuning** | **Prompt engineering** | Chatbots | LLMs | RAG | |

### Languages

Native spanish, **fluent english (C1, 2022)** and conversational valencian.