

# ERNESTO MARTÍNEZ GÓMEZ

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## PROJECTS

### Pokemon TCG card detector

2024

- Scraped all Pokemon card information and images from the Pokemon TCG API and used them to create an image bank to compare similarities with the camera capture.
- Implemented a way to detect which card was on the camera using the imagehash Python library, in addition to pandas, PIL, and OpenCV image manipulation.
- Created an efficient desktop web user interface using tools such as Flask for the backend, along with HTML, htmx JavaScript library, and TailwindCSS.

### Movie Recommendation System - Filmanin

2023

- Developed a movie recommendation system with a web user interface, utilizing the TMDB API to create the dataset.
- Implemented analysis and classification techniques based on rules in Python, leveraging tools like Pandas and Scikit Learn, to compare movies and generate recommendations.
- Designed an interactive web interface using technologies such as FastAPI, htmx, and JavaScript, featuring visual charts of movie comparisons created with Chart.js.

### Analysis for 2023 Spanish Athletics Ranking

2023

- Descriptive analysis of the Spanish athletics ranking in 2023, utilizing data from the official ranking of the Spanish Athletics Federation obtained through web scraping with Selenium and BeautifulSoup.
- Developed an interactive web application using Streamlit (Python) and Plotly, allowing readers to modify certain parameters to customize the analysis.
- Incorporated visualizations and provided conclusions on the landscape of under-18 Spanish athletes in 2023.

## EDUCATION

### Data Science Degree | Universitat Politècnica de València | *September 2022 - July 2026*

Minor in Python programming; Co-founder of Sigma Data Club UPV, leading the software and analysis team.

### Applied Data Science Program | Zrive | *January 2024 - April 2024*

Intensive program designed for high-performing university students who want to launch their careers as Data Scientists.

## SKILLS & INTERESTS

**Technical:** Python, R, SQL, FastAPI, Flask, JavaScript, HTML, CSS, Linux, Git, GitHub and Docker, with expertise in Statistics, Mathematics, Data Visualization, Machine Learning and software tools like Excel.

**Social:** Reliable, Organized, Analytical Thinking, Self-Learning.

**Languages:** Native Spanish, advanced English.

**Interests:** Athletics, Weightlifting, Hiking, Reading, and Graphic Design.