

# 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.

### Business classification

2024

- Project done at Zrive Schol for Coverwallet, an insurance company.
- Developed a model that predicts NAICS code's first two digits for any business using only its description with over 80% accuracy, using natural language processing techniques.
- Worked with techniques like tf-idf and used pre-trained models as word2vec, fasttext and distilBERT.

### 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 non supervised algorithms 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.

## EDUCATION

### Data Science Degree | Universitat Politècnica de València

September 2022 - July 2026

Honors in Python programming and Databases; 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.

## ADDITIONAL INFORMATION

- Languages: native Spanish, fluent English.
- Worked as a teacher at private programming classes for university students.
- Graduated with honors in high school, with 9.8 average grade.
- Athletics track and field athlete, 400m Spanish Championship finalist in under 18 category.
- Several times orienteering Spanish champion in minor categories, participated in World School Championships in Orienteering (Estonia 2019).
- Other interests include hiking, web development, reading and graphic design.