



# Pablo Catret

**Data Scientist** with strong quantitative skills and hands-on experience applying **AI** to real-world challenges in sectors such as climate and agriculture. Results-driven and an effective communicator, focused on transforming **data** into actionable **business value**. Keen to support innovation and decision-making through tech.

## CONTACT INFORMATION

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[Personal Website](#)

## SKILLS

### Data & AI:

Python, R, Machine Learning, Deep Learning (Tensorflow, PyTorch), Statistics, Optimization, pySpark

### Cloud & Automation:

AWS, Airflow, Docker, FastAPI, Git

### Databases & Visualization:

SQL, Neo4J, MongoDB, Cassandra, PowerBI

### Business & Communication:

A/B Testing, Causal Inference, Financial Analytics (KPIs), Project Communication, Agile teamwork and technical presentations to stakeholders

### Generative AI & NLP:

LLMs, LangChain, RAG, Autonomous Agents, Webscraping, HuggingFace Transformers

## LANGUAGES

**Spanish & Valencian:** Bilingual (C1 JQCV)

**English:** Fluent (C2 EF SET, B2 PACLE)

**German:** Intermediate (B1 EOI)

**Italian:** Intermediate

## EXPERIENCE

### Data Science Researcher IRTIC

Sept. 2024 – Present

- Developed AI/ML models for anomaly detection, classification, and forecasting using environmental and remote sensing data.
- Designed automated data pipelines (ETL) for large-scale scientific projects.
- Published research in high-impact journals (Q1) and presented at international conferences.
- Collaborated with multidisciplinary teams to deliver actionable insights for public and private stakeholders.

### Data Science Intern Capgemini

Feb. 2024 – Jun. 2024

- Contributed to an Anti-Money Laundering (AML) fraud detection project using Explainable ML and Graph ML.
- Worked on applied ML projects in smart cities and infrastructure monitoring.
- Hands-on training in Large Language Models (LLMs) and Generative AI with a focus on enterprise integration.
- Strengthened communication skills through cross-functional collaboration.

### Data Science Research Collaborator IRTIC

Jan. 2023 – Sept. 2024

- Built and evaluated ML/DL models for prediction and time-series forecasting in environmental science.
- Co-authored scientific articles and participated in international research initiatives.

## EDUCATION

**MSc in Data Science** - University of Valencia

Sept. 2024 – Present · GPA: 9.48/10

**BSc in Mathematics** - University of Valencia

Sept. 2020 – Jul. 2024 · GPA: 8.63/10

## MAIN CERTIFICATES:

**Stanford University:** Machine Learning Specialization

**NYIF:** Machine Learning for Trading Specialization

**Yale University:** Financial Markets (with honors)

**AWS:** Generative AI with Large Language Models

**John Hopkins University:** Advanced Statistics for Data Science Specialization

**Politecnico di Milano:** Project Management Specialization

**IBM:** AI Workflow: Feature Engineering and Bias Detection; Scalable Machine Learning on Big Data using Apache Spark

## OTHER RECENT PROJECTS:

- **ML** pipelines in **AWS** for real-time inference (2025)
- **Dockerized Airflow pipeline** for financial time-series, anomaly detection, and persisting processed data in PostgreSQL (2025)
- **AI assistant agent** for farmers, integrating **LLMs** and agronomic data (Currently)
- **Author** of "**A/B Testing**: Guía Práctica para Resultados Reales" (2025)