

Juan B. Pedro

AI Systems Architect | Machine Learning Engineer | CTO

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AI systems architect and startup CTO with 10+ years building production ML platforms. PhD in aeronautical engineering with expertise in deep learning, satellite imagery, and scientific ML. Led development of AI products reaching €1M+ ARR used by global organizations and 2000+ researchers worldwide.

Experience

EarthPulse, Co-Founder & CTO, <https://earthpulse.ai/>

2020-Present, Barcelona

- Led development of an AI platform for Earth observation analytics and large-scale satellite imagery processing.
- Built and scaled ML pipelines for satellite imagery processing used by global users.
- Grew company to **€1M+ ARR** while leading a team of **8 engineers and data scientists**.
- Developed the **PhiLab challenges platform and EOTDL**, used by **2000+ researchers worldwide**.

Universitat de Vic, Associate Professor

2020, Vic (Barcelona)

Professor of the Deep Learning for Diagnosis Decision Support Systems and Pattern Recognition with Machine learning classes of the Biomedical Engineering Degree.

Starlab, Full Stack Software Engineer

2018-2019, Barcelona

Built AI models and software systems for satellite image processing.

Termofluids, Software Engineer & Researcher

2011-2017, Terrassa (Barcelona)

Implemented a module for simulating turbulent compressible fluids into the Termofluids code.

Selected AI Systems

- Deep learning pipelines for satellite imagery segmentation and geospatial analysis
- Cloud orchestration for planetary-scale geospatial data pipelines
- GPU-based ML training workflows for large-scale experiments using Pytorch

Technical Skills

ML: Deep Learning (PyTorch, Lightning), Computer Vision, Scientific ML, PINNs

Systems: ML pipelines, distributed training, inference infrastructure

Languages: Python, C++, CUDA

Cloud: Docker, Kubernetes, AWS, GCP

Technical Education & Community

Author of *Introducción a la Inteligencia Artificial con Python*

<https://savvily.es/libros/introduccion-a-la-inteligencia-artificial-con-python/>

Creator of *El Curso de IA* with **1200+ enrolled students** <https://www.elcursodeia.com/>

AI education platform with 14K+ subscribers <https://www.youtube.com/@juansensio>

Code for **Data Science competitions** (Kaggle and more) <https://github.com/juansensio/competis>

Education

Universitat Politècnica de Catalunya, PhD in Aeronautical Engineering, 2013-2017, Terrassa.

Universitat Politècnica de València, MSc in Artificial Intelligence, Pattern Recognition and Computer Graphics. 2017-2018, València

Universitat Politècnica de Catalunya, Aeronautical Engineering

2008-2013, Terrassa (Barcelona)