Javier Martínez Llinares

AI Engineer and Data Scientist



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Summary

Artificial intelligence (AI) engineer specialising in agents built on large language models (LLMs), RAG and LangGraph, with systems in production as co-founder of nódicus and an MSc in AI (GPA 9.21/10).

Experience

Co-founder and AI Engineer, nódicus, two-partner custom AI consultancy (Valencia)
Oct 2025 – Present

- Lead client projects end to end: business analysis, proposal, development, deployment and support.
- Built an LLM system that assigns warranty codes for an industrial vehicle workshop from over 12,000 codes, using semantic search over validated cases (RAG) and a three-LLM consensus; in production at 72% accuracy (target: 65%).
- Automated sales visit reports from audio (speech-to-text) with LangGraph, integrated into the CRM: 30 hours saved a month.
- Extract structured, traceable data from technical documentation with open LLMs, hybrid search and evaluation.
- Developing a computer vision system for hospital pharmacy.

Deep Learning Researcher (bachelor's thesis), CoMMLab, University of Valencia
Jan 2025 – Jun 2025

- Trained convolutional neural networks (CNN, Keras) to estimate atrial fibrosis from over 200,000 electrograms I simulated in 225 tissues: 71% accuracy per signal and 91% per simulation.
- First author and presenter of "Prediction of atrial fibrotic infiltration from intracavitary signals with deep learning models" (in Spanish), *Proceedings of CASEIB 2025*, pp. 668–671.

Data Scientist Intern, Valencia Provincial Council (Diputació de València)
Oct 2024 – Dec 2024

- Analysed inter-municipal mobility with PySpark (team of three) and co-designed R-HDBSCAN, a recursive clustering method.

Software Developer, Pksiam
Sep 2022 – Jul 2023

- Built custom web applications for the healthcare sector, mainly frontend (JavaScript) and also backend (C#, SQL).

Education

MSc in AI, Pattern Recognition and Digital Imaging, Universitat Politècnica de València, 2025 – 2026
GPA 9.21/10. Master's thesis "Development of a multi-agent system to automate data science processes" (LangGraph, 12 agents, local model with Ollama), which raised the scripts running without errors from 29 to 69 out of 72.

BSc in Data Science, University of Valencia, 2021 – 2025
GPA 9.01/10, 6 distinctions with honours. Class representative. Erasmus at Sapienza University of Rome (2023–2024).

Awards

- **1st prize**, Grant Thornton challenge, LLMthon Legal 2026: AI agent for transfer pricing analysis.
- **1st prize**, Mobility Hackathon, Mobility Summit 2026 (50 participants): superblocks for the Camí Nou corridor.
- **1st prize**, ESG Hackathon Valencia 2026 (Innova&acción), Grupo Bertolín challenge: AI for construction waste management.
- **Innovation award**, DataHub 2025 (Marina de Empresas), Baleària challenge: AI dynamic pricing on Google Cloud.

Took part in 11 hackathons, usually leading the team and delivering the final pitch to the jury.

Skills

Generative AI	AI agents, LLMs, RAG (retrieval-augmented generation), LangGraph, LangChain, MCP, prompt engineering, semantic search (embeddings), hybrid search (BM25), LLM evaluation, speech-to-text
Models and APIs	OpenAI, Anthropic (Claude), Gemini, Grok, Groq, Hugging Face, fine-tuning (LoRA), Ollama
Machine learning	Deep learning, PyTorch, TensorFlow, Keras, scikit-learn, CNN, computer vision (OpenCV)
Programming	Python (pandas, NumPy), SQL, PySpark, JavaScript, C#, R, MATLAB
Development	FastAPI, REST APIs, Docker, Git, CI/CD, pytest, Google Cloud, Claude Code, Flask, Playwright

Languages

Spanish and Valencian (native; C1 Valencian certificate), English B2 (Cambridge First), French A2, Italian intermediate.

Interests

Rugby (San Roque club since 2017; regional university champion), theatre, hiking, reading and travel.