Josep Magraner Cuñat

Data Science Graduate · Machine learning, LLMs and backend

josepmagra@gmail.com +34 627 94 53 28 linkedin.com/in/josepmagra josepmagra.github.io Valencia

Experience

Macu Apps Jun 2026 – Present
Independent developer Remote

- Custom PWA for a fitness coach, **in production and used daily by the coach and his 18 clients**: nutrition and training plans, client tracking and progress analytics.
- Built with coding agents (Claude Code, up to 3 in parallel), grounded by an LLM-maintained knowledge base of design decisions, with every change reviewed and covered by unit, property-based and end-to-end tests (Playwright) run in CI before each deployment.
- PostgreSQL data model with row-level security (Supabase), Docker image deployed to a self-managed VPS provisioned with Ansible, with encrypted secrets; Next.js/TypeScript front end generated with AI.

Instituto de Ingeniería Energética (IUIIE), UPV Jul 2025 – Jun 2026
ML Engineer (internship contract) Valencia, Spain

- Multi-step forecasting of electricity demand and solar generation for food industry plants (~30 GWh/year): LightGBM, neural networks and Random Forest fed by real-time weather APIs (Open-Meteo, AEMET). **~3.8% MAPE at 24 h.**
- Automated SQL Server pipeline (ingestion, retraining and validation), weekly and monthly reporting for 7 industrial plants and a PyQt6 desktop app for end users.
- Letter of recommendation from the project lead, who rates my performance as "outstanding".

Menjars Cuca — *Delivery & Customer Service (part-time)* Mar 2021 – Dec 2025

Projects

LLM diet-generation engine and evals — Anthropic API 2026

- Engine that generates personalised diets with the Claude API. Macros are computed by application code, never by the model, and outputs are checked so it cannot invent foods. Built for Macu Apps, not yet released.
- Evals of cost and accuracy across models and effort levels: moving from low to medium effort cut protein deviation from up to 14.8% to 2.7%, at ~0.85 € per diet.

finance-copilot: personal finance app — Python, SQLite, PWA Aug – Sep 2026

- Offline-first PWA used daily, built on the Python standard library only: idempotent sync queue, signed-cookie auth with CSRF protection and an analysis engine for spending and runway.

Bachelor's thesis (10/10): energy time series imputation — Python 2026

- Benchmark of baselines, LightGBM, low-rank methods and deep learning on 7 industrial sites; hybrid system validated against a plant's actual bill: **72% lower deviation** than the method in production.

Education

BSc in Data Science — Universitat Politècnica de València (UPV) Sep 2022 – Jun 2026

Skills

LLMs & AI: Anthropic (Claude) API, LLM output validation and evals (cost, accuracy), AI agents, Claude Code
Backend & data: Python, SQL, PostgreSQL (RLS), SQL Server, REST APIs, ETL pipelines, Bash; TypeScript/Next.js (AI-assisted)
Infra & quality: Docker, Ansible, Linux, CI/CD (GitHub Actions), Git, unit/property-based/e2e testing (Playwright), AWS (academic)
Machine learning: Scikit-learn, LightGBM, XGBoost, deep learning, SHAP, time series, Pandas, NumPy
Languages: Spanish and Valencian (native), English (C1, Cambridge English Advanced)