

Ixeia Sánchez Périz

DATA & ML ENGINEER • CLOUD DATA PLATFORMS • LARGE-SCALE ML SYSTEMS

Zürich (Switzerland)

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EXPERIENCE

SWISS INTERNATIONAL AIRLINES

Jun. 2024 - present

Zürich

Cloud Data Engineer • Top Performer on 1st year

- Designed and **productionized terabyte-scale PySpark** pipelines, re-engineering a 15k+ LoC legacy SQL module into a modular, metadata-driven pipeline, reducing processing time **from 6h to 30m** for tabular data.
- Prototyped **agentic** agents for SQL to PySpark migration and drove AI adoption across engineering and product teams.
- Reduced **deployment time from 3h to 5 min** for **15 engineers**, enabling parallel releases and cutting failure hours per release by **driving the CI/CD design** and implementation in Microsoft Fabric and Power BI.
- **Communication:** Presented our Data Platform Solution to the Fabric product team at **Microsoft** HQ in Redmond, US.

VISIUM (CONSULTING)

Mar. 2023 - Aug. 2023

Zürich

Junior Machine Learning Engineer

- **Market Data:** Developed **energy hedging** method with 35% savings and constant CVaR applying forecasting & interpolation.

CORIFY CARE (MEDTECH)

Jun. 2020 - Jul. 2021

Valencia (Spain)

Data Scientist Intern (Part-Time 50%)

- **Signal Processing:** real-time ML pipeline on medical devices (64 electrodes, >20 patients), achieving low-latency **inference** for ECG classification.

EDUCATION

ETH ZÜRICH

Sep. 2021 - Apr. 2024

Zürich

MSc in Data Science

- **Thesis (Honours): Sailor**, Scalable System for **LLM training in the Cloud**.
 - Developed **distributed training** pipelines for **1.5B+** parameter LLMs using PyTorch & DeepSpeed, on top of a resource planner. Built on top of Kubernetes (GKE), Docker, NCCL, Gloo.
 - Implemented a novel in-CPU checkpointing mechanism (**2.87x** higher **goodput** on preemptible VMs) with parallelism.
- Cloud Computing: Designed dynamic Kubernetes **scheduler** achieving SLO 1.5ms 95th percentile latency.
- Computer Vision: Domain adaptation for tree canopies segmentation from drone images to **satellite imagery**.
- Audio Data: Automated an **ablation pipeline** to validate +250 Kaggle solutions on **self-designed** strategies.

POLYTECHNIC UNIVERSITY OF VALENCIA (UPV)

Sep. 2016 - Jul. 2021

Valencia (Spain)

Double BS in Telecommunication Engineering & Business Administration and Management

- **Ranked 1st** (avg. 9.1/10, 33 courses with honours)
- Thesis: Markov model for the cost-effectiveness study for healthcare system sustainability (published in Q1 journal).
- Exchange programme at Singapore Management University: Business studies • Santander Bank Scholarship

SKILLS

PROGRAMMING & FOUNDATIONS Python, SQL (advanced), Bash, Git • Data structures, parallelization, testing (pytest)

DATA ENG & ORCHESTRATION PySpark, Databricks, Microsoft Fabric, dbt, Fivetran

CI/CD (Azure Pipelines, Terraform, GitHub Actions) • Workflow orchestration (**ADF**)

ML & AI PyTorch, DeepSpeed, Multiprocessing • LLM training, MCP, **MLOps**

NLP (transformers, text preprocessing), Computer Vision, ECG, time-series

CLOUD & INFRA Azure, GCP (BigQuery, GKE), Docker, Kubernetes • Distributed computing (NCCL, Gloo)

HONORS & RECOGNITION

- **Commencement Speaker** for BSc graduation ceremony at University
 - **Youngest Speaker** at a University Career guidance talk at Uni Zurich
 - **Best Student Award** by Social Council (500+ students)
 - **Nova Top 111** University **talent in Spain** (under 25)
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| May 2025 • Valencia (Spain) |
| Nov. 2024 • Zurich |
| Jul. 2022 • Valencia (Spain) |
| Mar. 2022 • Madrid (Spain) |

LANGUAGES

English (C1) • **German** (B1/B2) • **French** (A1) • **Spanish** (Native)