

DIEGO LAFUENTE FALCES

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Education

CIPFP Mislata

Specialization Course in Artificial Intelligence and Big Data | **Grade: 9.2 / 10**

Sep 2025 – Jun 2026

Mislata, Spain

Cesur

Higher National Diploma in Multi-platform Application Development (DAM)

Sep 2023 – Jun 2025

Valencia, Spain

Conservatorio Profesional de Música “Fernando Remacha”

Professional Degree in Music – Cello

Sep 2016 – Jun 2023

Tudela, Spain

- **Premio Fernando Remacha** (cello) – awarded twice: Category B (2016) and Category D (2023)

Work Experience

CodeArts Solutions

Software Developer Intern

Mar 2025 – Jun 2025

Remote – Seville, Spain

- Contributed to feature development and optimization of **DP****Telemetry**, a cross-platform app for real-time motorsport data analysis, built with **C#** and **Unity**
- Integrated the frontend with **PostgreSQL** databases through **REST APIs** to process and visualize live vehicle telemetry metrics
- Redesigned user interfaces and debugged core systems, improving application stability and cross-platform performance on **iOS** and **Android**, working in a remote **Scrum** team

Various Orchestras & Ensembles

Professional Cellist (Freelance)

Jun 2021 – Present

Navarre, Spain

- Perform with orchestras and chamber ensembles across Navarre; independently prepare repertoire to deadline and deliver live under pressure

Projects

MedFlow | *Source Code*

Python | **FastAPI** | **Airflow** | **PostgreSQL** | **scikit-learn** | **Azure AI**

- Manchester **C1–C5** clinical triage platform with **13 FastAPI** microservices over PostgreSQL and MinIO, orchestrated by **Airflow** DAGs and **n8n** alert workflows
- Text or audio ingestion, with transcription and **diarization** isolating the patient’s voice, and an **LLM** chain that extracts, normalizes and labels symptoms over **272 real clinical transcripts**
- **scikit-learn** Manchester-level classifier trained on that corpus, using **grouped cross-validation** to prevent leakage between augmented cases
- **Ethical audit** that detects undertriage in emotionally distressed patients and alerts the clinician, plus a *regression gate* in **CI** that blocks prompts degrading triage

Scholarium | *Source Code*

Python | **Airflow** | **dbt** | **PostgreSQL** | **FastAPI** | **Power BI**

- Built a **medallion ELT pipeline** (Airflow + dbt) ingesting ~26K real academic grades from XML into a PostgreSQL **star schema**, with **15 dbt tests** on every load
- Developed a **text-to-SQL** assistant that lets teachers query the data warehouse in natural language, hardened with **four independent security layers** that block all **21 tested attack payloads**
- Designed a **Power BI** dashboard over the same schema for recurring management KPIs (dropout, pass rates, no-shows)
- Measured quality with **execution-accuracy evals** on a 32-question golden set in **CI**, and added a **pgvector semantic cache** serving repeat queries in ~15ms

Certifications

Microsoft Certified: Azure AI Apps and Agents Developer Associate – Microsoft

Aug 2026

Google Advanced Data Analytics Professional Certificate – Google

Nov 2025

Google Data Analytics Professional Certificate – Google

Oct 2025

Technical Skills

Languages: Python, Java, Kotlin, C#, TypeScript, SQL

AI & Data: PyTorch, TensorFlow, scikit-learn, NLP, MLOps, Airflow, dbt, Kafka, NiFi, n8n, Databricks

Frameworks: FastAPI, .NET, Avalonia, Next.js, React, Unity, Streamlit

Cloud, DB & Tools: Azure, AWS, Docker, Git, PostgreSQL, MySQL, MongoDB, SQL Server

BI & Visualization: Power BI, Grafana, Tableau