

# Gonzalo López Gil

Data Governance & AI Consultant · Spanish Ministry of Defence

Email [gonzalo.lopez.gil@gmail.com](mailto:gonzalo.lopez.gil@gmail.com)

Phone +34 679 070 796

Nationality Spanish

[LinkedIn](#)

[GitHub](#)

[Website](#)

Working at the intersection of **data governance**, **AI adoption** and **data-centric transformation** in defence. From CDO advisory to hands-on agentic AI workflows for AI-ready data organisations.

## EXPERIENCE

### Data Governance & AI Consultant

*Isdefe · Spanish Ministry of Defence · Data Office*

Sept. 2024 – Present  
Madrid, Spain

- Advised the **Chief Data Officer** on Data & AI strategy, governance and adoption.
- Developed the **Data Reference Architecture**, based on NATO's architecture framework and DAMA-DMBOK.
- Implemented a **Data Catalogue** to enable the Armed Forces to publish Data Products.
- Participated in the **NATO Writing Team** for a Federated Data Catalogue for the Alliance.
- Built **agentic AI workflows** with on-premises LLMs for secure knowledge retrieval and document generation.
- Conducted **workshops** with stakeholders to support data-centric and AI adoption.

### Data & Software Engineering Intern

*Deimos Space*

Feb. 2023 – Aug. 2023  
Madrid, Spain

- Developed **Python data pipelines** and **ETL workflows** to collect, process and analyse data.
- Built Java & Spring Boot **backend services** integrating computer-vision outputs into data-driven applications.
- Modelled **geospatial datasets** with **SQL** to support **dashboards**, spatial analytics and operational workflows.

## EDUCATION

### MSc in Data Analytics

*Dublin City University · First Class Honours*

Sept. 2023 – Aug. 2024  
Dublin, Ireland

- Foundation in data science, machine learning, deep learning, cloud computing and data engineering.

### BSc in Computer Science

*University of Alcalá*

Sept. 2019 – June 2023  
Madrid, Spain

- Foundation in software engineering, programming, algorithms, databases and artificial intelligence.

## PROJECTS & RESEARCH

### Agentic AI: LLM Tooling

*Open Source*

2025 – Present

- Built CLI & MCP tools in Python for LLM agents to query regulatory knowledge bases through RAG workflows.

### Deep Learning Models for Stock Market Time Series Prediction

*Master's Dissertation · First Class Honours*

2024

- Applied research on deep learning models for financial time-series forecasting and developed xLSTM-TS in Python.

### Universal Web Scraping GUI for Data Extraction

*Final Year Project · Awarded with Distinction*

2023

- Built a Python & JavaScript GUI for extracting structured web data through visual element selection.

## LANGUAGES

Spanish: Native   English: C2   French: B1

## CERTIFICATIONS

**AI Governance, Management & Quality** *University of Castilla-La Mancha, 2026*

**Develop AI Solutions in Azure** *Microsoft, 2026*

**Data Governance with IBM Knowledge Catalog** *IBM, 2025*

**Data Engineering on Google Cloud Platform** *Google, 2025*

**Data Governance, Management & Quality** *DQTeam, 2024*

**C1 Advanced** *Cambridge English, 2023*

## SKILLS

**AI & Analytics:** agentic AI, data science, local AI, LLMs, deep learning, NLP, computer vision, RAG

**Data & Architecture:** data engineering, ETL, SQL, data catalogues, metadata, data products, data architecture

**Engineering & Cloud:** Python, Java, backend development, Docker, Git, AWS, Azure, GCP

**Advisory & Adoption:** stakeholder engagement, workshops, change management, technical communication