

# DANIEL, LÓPEZ COTO

ML ENGINEER / DATA SCIENTIST



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## EDUCATION

### PhD, DS in Particle Physics

University of Granada, Granada,  
2018 - 2022

### Big Data and Data Science Applied to Economics and Business

UNED, 2022 - 2022

## SKILLS

- Programming & Data: Python, PySpark, SQL, SQLAlchemy.
- APIs & Services: FastAPI, REST, Docker.
- Pipelines & Automation: Airflow, Azure DF.
- Databases: PostgreSQL, MySQL PGVector.
- Cloud: Azure (DataFactory, Databricks, Synapse).
- Visualization: Power BI, Power Query, DAX.
- Version Control: Git, GitHub, Bitbucket, Azure DevOps.
- Soft skills: Agile methodologies, JIRA, Communication (tech & non-tech reporting).

## LANGUAGES

- Spanish (Native Speaker)
- English (Professional Proficiency)

## INTERESTS

- Ongoing learner focused on software and AI.
- Team-oriented, with experience in live performance and collaboration.
- Resilient and disciplined, driven by outdoor sports and martial arts.

## PROFILE

MLOps Engineer / Data Scientist with experience in designing robust data and ML pipelines (Airflow, Azure DF), deploying models via REST APIs (FastAPI), and containerizing services with Docker. Skilled in Azure Cloud, CI/CD, and large-scale data analysis. Strong written and spoken communication in English, with experience in documentation, cross-team collaboration, and client advising. Focused on service-oriented architectures, automation, and reliable deployment of AI solutions.

## PROFESSIONAL EXPERIENCE

### ➤ ML Engineer/Data Scientist / Oct, 2024 - Present MINSAIT (INDRA)

- Designed and automated ETL pipelines for LLM-based document processing.
- Applied LLMs for large-scale text analysis, summarization, and comparison.
- Developed RESTful APIs to deploy and serve AI models in production.
- Built RAG-based chatbots enabling scalable user interaction.
- Containerized NLP services with Docker, ensuring maintainability and deployment readiness.

### ➤ ML Engineer / Jan, 2024 - Oct, 2024 SDG Group

- Built full ETL pipelines to train ML models using Airflow.
- Monitored and orchestrated data workflows with Airflow and ArgoCD.
- Developed containerized applications and ML prototypes (Docker, FlowiseAI, LLaMA2).
- Created automation tools reducing manual effort from weeks to minutes.

### ➤ Data Engineer / Sep, 2022 - Jan, 2024 SDG Group

- Migrated data pipelines from on-premise to Azure Cloud.
- Built and maintained ETL pipelines with PySpark and SQL for Azure migration and business reporting (Power BI).
- Translated business needs into technical solutions.
- Applied version control with Git and Azure DevOps; followed Agile methodology.

### ➤ Data Scientist, Researcher/ Feb, 2018 - May, 2022 University of Granada

- Analyzed large scientific datasets using C++ and Python.
- Performed hypothesis testing for neutrino signal detection.
- Simulated high-energy particle interactions.
- Developed pipelines for data extraction from remote HPC clusters (Bash).

