

Ignacio Ordovás Pascual

Data Scientist

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With a strong scientific background and extensive experience as a Data Scientist, I thrive in the dynamic environment of professional consulting. Having contributed to cross-functional client projects and internal initiatives focused on ML pipelines, I excel in teamwork, meeting deadlines, and effectively communicating complex ideas to non-technical audiences. As a curious and fast learner, I continuously embrace the latest data science techniques, ensuring adaptability and delivering tangible results.

EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS: Associate Data Scientist (Apr 2021 - Present)

Currently working in Cognizant Ocean. Participated in projects spanning various industries such as Life Sciences or Oil & Gas companies.

Ocean project:

- **Generative AI** demo for obtaining automatic insights from supply chain datasets using chat prompts in python using **LangChain with OpenAI GPT-3/4 LLMs**.
- NLP use case for **record matching using NLP techniques** (sentence similarity, Fuzzy string matching).
- **Optimization** use cases to obtain the most adequate actions to use in the supply chain.

Life Sciences client project:

- Updated an **AI model to assist clinical study designers** in creating less burdensome trials.
- **Analyzed survey data** using statistical techniques such as Causal Inference/Propensity Score and Bootstrapping to assess the impact of 40 variables on patient burden.
- **Designed a CI/CD pipeline in GitHub** to facilitate the deployment of containerized updated models by connecting input data from S3 buckets.
- **Ensured the stability and maintainability of deployed AI algorithms** in production through rigorous unit testing.

Other client and internal projects experience:

- **Created proof-of-concept (PoC) demos** for clients using Azure Web App, employing Docker/Streamlit or Flask.
- Implemented autoencoder-based techniques, clustering algorithms, and other approaches to achieve a 90% recall rate for **automatic defect detection**.
- Collaborated with Data Engineers to **develop API endpoints for productionizing solutions**.
- **Developed a retail self-checkout solution using Azure Percept**, published in Microsoft IoT blog ([click here](#)).
- **Mentored graduates**, providing instruction on Data Science and Computer Vision concepts and applications.

INSTITUTE OF PHYSICS OF CANTABRIA (CSIC-UC): Researcher (Jan 2014 - Dec 2019)

Conducted extensive research on the relationship between optical extinction, X-ray absorption, and classification of AGN.

- Developed Python code for **automatic model selection and feature detection**.
- Planned and executed **numerical simulations** to measure physical parameters and determine 1σ confidence intervals.
- **Published findings** in 4 peer-reviewed papers, delivered 7 oral presentations, and presented 3 scientific posters.

TECHNICAL SKILLS

Advanced Python Programming
CI/CD Pipelines

Statistical Analysis
Natural Language Processing

Machine Learning
Cloud (Azure, AWS)

Git
Computer Vision

SOFT SKILLS

Public speaking
Written communication

Teamwork
Problem solving

Storytelling
Mentoring

Versatility
Critical thinking

EDUCATION

PhD In Science and Technology (Cum Laude distinction): University of Cantabria

Master in Astrophysics & Bachelor Degree in Physics: University of La Laguna

LANGUAGES

English B2 (University of Cambridge), **Spanish** (Native)

OTHER HIGHLIGHTS

Ironhack Data Analytics Bootcamp: Private education company course to learn Data Science applied to real use cases.

Azure Percept IoT device training: Bootcamp organized by Microsoft.

Certification: Azure Fundamentals (AZ-900).

MOOC courses (such as Udemy or Coursera): CI/CD, Optimization, CV, NLP, Keras/Tensorflow, Azure, Gen AI, Machine Learning.

Narrate the Science. Scenic and Oral Narration Techniques for Scientific Communication, UC summer course.