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)
Participated in projects spanning various industries including Life Sciences, Food Quality Control, and Oil & Gas companie.
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**.
- **Compiled a proposal of ML-based solutions** (e.g., Random Forest) **and data analytics** to identify the top 10 actions for optimizing outcomes.
- Collaborated with Data Engineers to **develop API endpoints for productionizing solutions.**
- **Developed a retail self-checkout object detection solution using Azure Percept,** documented in a Microsoft IoT blog post that garnered over 5000 views (click here.
- **Established MySQL DB connections in Python** and utilized Jinja templates to generate reports and configuration files.
- **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 Active Galactic Nuclei.
- **Analyzed spectral datasets** of galaxies as part of a PhD research project.
- 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	Statistical Analysis	Machine Learning	Git
CI/CD Pipelines	Natural Language Processing	Cloud (Azure, AWS)	Computer Vision

SOFT SKILLS

Public speaking	Teamwork	Storytelling	Versatility
Written communication	Problem solving	Mentoring	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 in Udemy and Coursera: CI/CD, Optimization, CV, NLP, Keras/Tensorflow, Azure, AWS, Machine Learning.
Narrate the Science. Scenic and Oral Narration Techniques for Scientific Communication, UC summer course.