Ignacio Ordovás Pascual

Data Scientist

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With a strong scientific background in academic research and extensive experience as a Data Scientist, I thrive in the dynamic environment of data science. Having contributed to cross-functional projects and internal initiatives focused on data science 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 techniques, ensuring adaptability and delivering tangible results.

PROFESIONAL EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS: *Associate Data Scientist* (May 2021 - Present)
Participated in projects spanning various industries such as Ocean economy, Healthcare or Oil & Gas companies.

NLP and Generative AI projects:
- Coded a **Generative AI chatbot** for allowing the user to obtain automatic descriptive analytics and generate plots to help in logistics planning. The chatbot is connected with a graph database with supply chain logistics data.
- Improved the usability of **RAG-based chatbot** with GPT-4 used in production for a banking company, filtering non-compliant requests from users using SpaCy among other decisions.
- Designed a NLP use case for **record matching using NLP techniques** (sentence similarity, Fuzzy string matching).

Life Sciences client project:
- Updated an **AI model to assist clinical study designers** in planning procedure schedules.
- **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** for containerized models and to connect 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,**
- Implemented a **python pipeline with connections to SQL databases** to automatically calibrate portfolio data in insurance**.**
- **Developed a retail self-checkout solution using Azure Percept IoT device,** published in Microsoft IoT blog (click here).
- **Mentored graduates**, providing instruction on Data Science and Computer Vision concepts and applications.

TECHNICAL SKILLS

Advanced Python Programming	Statistical Analysis	Machine Learning	Gen AI (LangChain)
CI/CD Pipelines in GitHub	Natural Language Processing	Cloud (Azure AZ-900)	Computer Vision

SOFT SKILLS

Public speaking	Teamwork	Storytelling	Versatility
Written communication	Problem solving	Mentoring	Critical thinking

EDUCATION EXPERIENCE

**PhD In Science and Technology (*Cum Laude* distinction)*:* University of Cantabria
Conducted extensive research on the relationship between optical and X-ray obscuration and its relation with the classification of Active Galactic Nuclei for my PhD by developing **Python code for model selection, curve fitting, feature detection and mathematical simulations**.

Master in Astrophysics & Bachelor Degree in Physics: University of La Laguna
Master thesis about **unsupervised machine learning algorithm K-means** applications for galactic spectra.

LANGUAGES

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

OTHER HIGHLIGHTS

Invited talk about GenAI at FOSSCILT 24: Presentation about the performance of LLMs with mathematical operations (click here)
Published scientific findings in 4 peer-reviewed papers, delivered 7 oral presentations, and presented 3 scientific posters.
Ironhack Data Analytics: Private education company course to learn Data Science applied to corporate use cases.
Azure Percept training: Training organized by Microsoft to create Computer Vision solutions in this IoT device.
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.