

Álvaro Alonso Casero

Spain | alvaroalon2@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

UPM

Master in AI

Madrid, Spain

Graduation Date: Jun 2021

UPM

Degree in Biomedical Engineering, Biomedical Imaging

Madrid, Spain

Graduation Date: Jun 2020

WORK EXPERIENCE

Kairos DS - Cepsa

Data Scientist

Madrid, Spain

Jul 2022 - Present

- Developed and executed a comprehensive pricing strategy utilizing machine learning algorithms and mathematical optimization models to optimize fuel prices at Service Stations, resulting in a 2M€ impact.
- Collaborated with cross-functional teams to develop an Autoencoder model for anomaly detection for preventive maintenance of machinery.
- Implemented OCR techniques to extract pertinent information from construction drawings efficiently.
- Implemented NLP techniques to streamline the information retrieval process, reducing the time taken to extract key data points from product catalogues.
- Analyzed customer data to segment the market effectively and provided strategic insights for customized marketing strategies, leading to improved engagement and conversion rates.
- Successful development of several POCs and EDAs, some of which initiated new projects.

Kairos DS - Hospital La Paz

Data Scientist

Madrid, Spain

Oct 2020 - Jul 2022

- Architected and developed the survAI genomic platform initially on Google Cloud Platform, later migrating to Kubernetes for on premises execution because of medical privacy concerns.
- Involved in the end-to-end development of SurvAI platform, including database, web platform, and ML model implementation for survival analysis, integrating Federated Learning and implementing MLFlow for model cycle.
- Spearheaded the development of an API within the Verbalizapp project, leveraging Deep Learning models for Automatic Speech Recognition to assess the verbal expression of aphasia patients via a mobile application.

ACHIEVEMENTS

- Tech supporter of a project with an annual impact of +2M €.
- Paper publication in SEPLN: [An Overview of Drugs, Diseases, Genes and Proteins in the CORON-19 Corpus](#).
 - [Repository](#) associated with the paper with +80 stars on Github.
 - [Huggingface](#) models with +2M total downloads.
- AI Language Learning multimodal chatbot [personal project](#) using State-of-the-art LLM models

CERTIFICATIONS

- AWS Certified Machine Learning – Specialty
- Google Professional Data Engineer
- AWS Cloud Practitioner Foundational
- Neo4j Certified Professional
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Fundamentals

SKILLS & INTERESTS

Skills: Python, AWS, GCP, Langchain, Huggingface, Pyomo, XGBoost, Kubernetes, MLOps, PyTorch, Keras, SQL, Streamlit, Gradio, SQL, Spacy, Haystack

Interests: NLP, LLM, GenAI