Alberto Agudo Dominguez

✉ **a.agudo99@hotmail.es**   in **LinkedIn**   ◯ **github.com**   🔗 **stackoverflow**   ◯ **blog/personal website**

Current role	Data Scientist - AI at Minsait
Experience	Deep Tech, Analytics, Media, Financial Services, Governments, Artificial Intelligence, Consulting, Energy, Sustainability...
Technologies	AWS, Docker, Python, Azure, SAP, Git, R, Spark, SQL, Power BI

Right now I'm learning...
about LLMs as well as DevOps/MLOps for their deployment, particularly in AWS as I passed the ML Engineer - Associate exam in Dec 2024 and the Solutions Architect - Associate one in July 2023

Work experience

Data Scientist - AI, Minsait ▦

Sep 2024 - Present (4m)

Deep Tech

`AWS` `Docker` `Python` `Azure` `SAP` `Git`

- Generated long-term revenue streams by migrating an architecture from Azure to SAP BTP and enhancing it with GenAI

Data Scientist / R Software Engineer, Ebiquity ▦

Sep 2022 - Sep 2024 (2y)

Analytics · Media

`AWS` `Docker` `Python` `R` `Spark` `Git`

- Led projects worth over GBP 100k involving data collection, xgboost models for customer choice classification and brand performance prediction, and econometric models for marketing effectiveness (MMMs, A/B testing)
- Boosted project efficiency by creating new statistical tools and pipelines with Docker + AWS to streamline workflows
- Saved two working days per project by developing Shiny apps for quick data exploration and visualization by consultants
- Improved data processing speed by 2x to 100x through Spark optimizations in AWS and Arrow
- Generated new revenue streams with the successful delivery of an end-to-end ML POC using Xgboost

Visiting Researcher, Bank of Spain ▦

Jun 2022 - Sep 2022 (3m)

Financial Services · Governments

`Python` `R`

- Created a comprehensive scholars' database to support the development of a research paper
- Developed and implemented a web scraping tool utilizing Selenium to collect academic data from Google Scholar
- Utilized the Twitter API to extract relevant tweets from top economics departments in the United States

Data Science Internship, <u>Smartup Digital Agency</u> ⊞   Feb 2021 - Jul 2021 (5m)

Artificial Intelligence · Consulting

SQL   Python   Power BI

- Delivered three end-to-end machine learning projects worth more than EUR 50k each, focused on geospatial crime analysis, demand forecasting and marketing effectiveness analysis, and machine optimization
- Utilized Python (Random Forests, Prophet) and PowerBI to perform statistical modeling, machine learning, programming, and dashboard creation to solve complex business problems, presenting results

Research assistant, <u>University of Salamanca</u> ⊞   Nov 2019 - Feb 2021 (1y 3m)

Energy · Sustainability

Python   R

- Contributed to the ATACC research project, funded by the Ministry for Ecological Transition, focused on adaptive policies for water management under climate change
- Published a paper in a Q1 peer-reviewed academic journal on water management as corresponding author
- Created databases and conducted econometric modeling in R

Education

The London School of Economics and Political Science (LSE)   Sep 2021 - Sep 2022 (1y)

(Distinction) MSc Applied Social Data Science, Data Science
- Expertise in Computer Programming, Data Engineering, Causality, ML, and Deep Learning. Specialized in Deep Learning, foundations of GenAI and LLMs (Transformers, GANs)
- Technologies used: Python, R, AWS, SQL, Tensorflow
- Awarded with one of the ten "Postgraduate Studies" grants of the Bank of Spain (former Spain Central Bank) to attend the LSE MSc

University of Salamanca   Sep 2017 - Jul 2021 (3y 10m)

Bachelor (9.73 / 10) Economics
- Top of the class award (28 subjects with honours). Honours in the Thesis Defense
- Erasmus Exchange at KU Leuven (Belgium), completed with distinction

Snippets

Deep learning project on NLP experimentation 🔗 **github.com**
Performed sentiment analysis of movie reviews. Compared 80+ deep learning architectures for best results based on a combination of different types of embeddings through vector databases (training our embeddings vs other popular options like SpaCy) and standard architectures, like LSTMs/GRUs/RNNs. Developed a suite of tools for text preprocessing (tokenizers) and semantic representation.