

# Odei Hijarrubia

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## Summary

AI & Data Scientist with a Master's in Applied AI and strong foundations in software engineering. Proven track record of designing robust machine learning models, engineering scalable data pipelines, and deploying AI solutions into production. Proficient in Python, SQL, and cloud technologies, with hands-on experience in Deep Learning, NLP (LLMs/RAG), and Computer Vision. Passionate about leveraging complex data to extract actionable insights and solve real-world business challenges.

## Experience

Data Scientist & AI Engineer, WhiteBox – Madrid Sept 2025 – Present

- Designed and developed scalable data pipelines and ETL workflows using Python and Apache Airflow to process and standardize large-scale datasets from diverse sources.
- Implemented advanced machine learning algorithms, including unsupervised clustering (DBSCAN) and NLP techniques, to solve complex entity resolution and product matching challenges.
- Conducted rigorous Exploratory Data Analysis (EDA) and validated data quality to extract actionable business insights and support data-driven decision-making.
- Leveraged emerging GenAI technologies and LLMs to optimize data workflows and improve the accuracy of automated generation pipelines.

Data Scientist Intern, Airbus – Getafe, Madrid Mar 2025 – Aug 2025

- Engineered a predictive maintenance machine learning model for the A350's pneumatic system by analyzing complex, multi-sensor time-series datasets.
- Applied advanced feature engineering techniques to extract critical operational indicators and significantly improve model forecasting accuracy for system leaks.
- Evaluated model performance by defining robust automated testing strategies, establishing a foundation for proactive maintenance in real-world industrial environments.

Software Engineer Intern, Hiberus – Pamplona, Navarra Sept 2023 – Dec 2023

- Built full-stack features for a surgical interventions management application for the Government of Navarra using C#, .NET, and SQL Server.
- Collaborated in an Agile/Scrum environment, utilizing version control (Git) and participating in code reviews to ensure robust software foundations and data integration.

## Education

Master's Degree in Applied Artificial Intelligence, Universidad Carlos III de Madrid Sept 2024 – Jun 2025

- Thesis: Designed and implemented an agentic Retrieval-Augmented Generation (RAG) system to enable robust natural language querying of complex databases.
- Key Courses: Machine Learning, Deep Learning, NLP, Computer Vision, Time Series Analysis.

B.Sc. Computer Engineering, Universidad Pública de Navarra Sept 2020 – Jun 2024

Specialization in Computing and Intelligent Systems

- CS Fundamentals: Data Structures, Operating Systems, Advanced Programming, and Language Processors.
- Erasmus+: Brno University of Technology, Czech Republic (Feb 2024 – Jun 2024).

## Skills

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| Languages:        | Python, SQL, C#, Java, C++, JavaScript, Bash                               |
| ML & AI:          | PyTorch, Scikit-learn, Pandas, OpenCV, NLP, LLMs, LangChain, Deep Learning |
| Data Eng & Cloud: | AWS, Palantir Foundry, Apache Airflow, Docker, Git, CI/CD, ETL pipelines   |
| Databases:        | PostgreSQL, SQL Server, Vector Databases                                   |

## Certifications & Languages

|                 |                                                                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications: | Certified Palantir Foundry Data Engineer Professional, AWS Certified Machine Learning – Associate, AWS Solutions Architect – Associate, Deep Learning Specialization (DeepLearning.AI) |
| Languages:      | Spanish (Native), English (C1 Advanced Cambridge Certified), Euskera (C1)                                                                                                              |