Jorge Laborda *Ph.D.*

Machine Learning Engineer

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Experience

Data Scientist 2025 – 2026
Insight Solutions *Remote*

- Engineered features from the agent–client database that improved the probabilistic scoring model used to assign agents to clients.
- Diagnosed daily production model failures through EDA, benchmarking against expected behavior to identify root causes.
- Presented model progress and business impact to the Product Owner, translating results into decisions.

AI Researcher 2018 – 2025
University of Castilla-La Mancha *Albacete, Spain*

- Designed and parallelized algorithms for learning Bayesian network structure on high-dimensional data; outperformed strong baselines (up to 8× faster) on standard benchmarks, leading to several Q1 journal articles.
- Built reproducible ML pipelines on a SLURM cluster (batch jobs, Maven builds) with GitHub Actions CI/CD for automated tests and releases on open-source repositories.
- Taught 160+ hours of undergraduate courses (Java, algorithms, concurrency), translating research ideas into clear technical explanations.

Projects

SmartWealthAI 2026 – Present

- Python, XGBoost, FastAPI, MLflow, Docker, Terraform, AWS ECS Fargate, Streamlit
- Built an end-to-end credit default model with explainable WOE/IV feature engineering, producing a probabilistic score that ranks customers by default risk; served via FastAPI, tracked with MLflow and deployed with Terraform on AWS ECS Fargate.
- Implemented data drift monitoring (PSI) to flag when the credit model needs retraining.
- Developed a point-in-time Magic Formula stock screener with live market data and a Streamlit dashboard.

Education

Ph.D. in Advanced Computer Technologies (Specialization in Artificial Intelligence) 2019 – 2025
University of Castilla-La Mancha *Albacete, Spain*

- Grade: Cum Laude
- Thesis title: Parallel and Distributed Approaches for Learning Bayesian Networks in High-Dimensional Problems.

M.Sc. Data Science & Data Engineering in the Cloud 2020 – 2021
University of Castilla-La Mancha *Albacete, Spain*

M.Sc. Research in Artificial Intelligence 2018 – 2019
International University of Menéndez Pelayo (UIMP) *Madrid, Spain*

B.Sc. Computer Science 2014 – 2018
University of Castilla-La Mancha *Albacete, Spain*

Certificates

Investment Management with Python and Machine Learning Specialization. May 11, 2026

- EDHEC Business School

AWS Certified Machine Learning Engineer – Associate Work in Progress

- MLA-C02

Skills

MLOps & Cloud AWS, Docker, Terraform, MLflow, CI/CD (GitHub Actions), SLURM.
ML & Data Python, PySpark, scikit-learn, TensorFlow, XGBoost, Pandas, NumPy, SciPy.
Engineering & Tools Java, SQL, FastAPI, Poetry, uv, Maven, Git.

Communication

Spanish *Native* **English** *C1 Advanced (Cambridge)*