Álvaro Diez | AI Platform Engineer

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ML / AI Platform Engineer specialized in MLOps with 5+ years owning end-to-end ML infrastructure, systems and data pipelines at scale. I design robust Python systems with CI/CD/CT and Docker-based delivery, enabling teams to ship and iterate on ML solutions faster—currently leading the AI Platform work at BNP Paribas.

Experience

Adjunct Lecturer - Big Data (6 ECTS) | UNIE University (B. Sc. Mathematics) **Starting Jan 2026**

- Deliver lectures and hands-on labs on Big Data infrastructure design, distributed computing with Apache Hadoop and Spark, and distributed programming across nodes.
- Teach scalable ML techniques (Random/Orthogonal Fourier Features, Nyström) for kernel methods, plus process/workload management concepts (e.g., Slurm) and massive storage systems.

AI Platform Engineer @AIR Tech | BNP Paribas **Feb 2025 - Present**

- Promoted to AI Platform Engineer to lead MLOps adoption and the delivery of a shared AI platform for regulated, production-grade ML/DL/GenAI projects.
- Designed and operated end-to-end ML workflows (train/evaluate/package/deploy) with strong focus on reliability, reproducibility, and maintainability.
- Built a configuration-as-code framework to standardize trainings and deployments of models, apps, and APIs, enabling consistent environments, traceable changes, and repeatable releases.
- Modernized release practices from biannual deployments (~6 months / 2 per year) to continuous delivery capability (daily deployments) via automated CI/CD/CT pipelines and quality gates.
- Developed Python tooling (e.g. bnpp_airlib) and platform components integrating containerized delivery (Docker) and core data services (e.g., object storage + PostgreSQL) to support scalable experimentation and production pipelines.

Machine Learning Engineer @AIR Tech | BNP Paribas **Oct 2020 - Feb 2022**

- Owned end-to-end delivery of ML solutions in a regulated environment: data preparation → training → evaluation → deployment → monitoring, with clear documentation and stakeholder alignment.
- Built and maintained scalable Python data pipelines for feature/dataset generation and model training, prioritizing reliability and reproducibility.
- Contributed to Python / programming / DevOps / MLOps best practices adoption across the team through knowledge sharing, workshop sessions and mentoring.

Machine Learning Engineer @Aphelion Team | SOLUTE Ingenieros **Feb 2022 - Feb 2025**

- Led the MLOps adoption and built the ML system to train, evaluate, validate, deploy and monitor the ML models.
- Built distributed PB-scale ETL data pipelines of meteorological data and Deep Learning models for the wind energy industry worldwide (time-series forecasting).
- Conducted knowledge sharing sessions and collaborated closely with research to develop state-of-the-art models.

Mechanical Engineer | CranesLab **Feb 2019 - Jul 2020**

- Multi-objective optimization of critical crane components using genetic algorithms.

Open-source

- PySuricata - Lightweight, high-performance Exploratory Data Analysis for Python.

Education & Certifications

MSc. in Industrial Mathematics | Universidad Carlos III de Madrid **Sep 2019 - Jul 2021**

- Modeling Specialization (8.4/10). Excelling in subjects such as: Networks and Distributed Computing, and C++.
- Master's Thesis: "Development of the forecasting system and statistical downscaling models in meteorology" (10/10)

B.Sc. in Mechanical Engineering | Universidad Carlos III de Madrid **Sep 2015 - Jun 2019**

B.Sc. in Mechanical Engineering | Purdue University **Sep 2017 - May 2018**

Machine Learning Engineering for Production | DeepLearning.AI **Sept 2023**

Deep Learning | DeepLearning.AI **Dec 2020**

C1 Advanced | Cambridge English **Jul 2018**