ALEJANDRO ORTIZ PERDOMO

AI Engineer | Machine Learning Engineer

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PROFESSIONAL PROFILE

Machine Learning Engineer and Statistician with solid experience in the full AI model lifecycle. Specialized in **Azure Databricks**, **MLflow**, and **RAG** architectures for GenAI. Currently focused on integrating cognitive services like **Azure AI Search** and **Document Intelligence** for business process automation. Combines a strong mathematical background with software engineering (CI/CD, Docker) to deploy scalable solutions.

WORK EXPERIENCE

AI Developer Consultant   **Jun 2025 - Present**
Freelance Project / Consultancy

- **Intelligent Automation:** Implementation of **Azure Document Intelligence** for the automatic extraction and standardization of resumes.
- **Search Engines:** Integration with **Azure AI Search** for fast semantic queries and comparisons between candidates and job offers.
- **Matching Algorithms:** Configuration of similarity coefficients to optimize talent selection and candidate ranking.

Machine Learning Engineer   *Sep 2023 – Jun 2025*
Global Hitss

- **GenAI & RAG:** Designed NLP workflows for conversational agents, significantly reducing inbound operational load.
- **MLOps:** Orchestrated predictive models in **Databricks with MLflow**, ensuring full traceability and continuous monitoring.
- **Reinforcement Learning:** Productized a *Next Best Offer* (NBO) system, maximizing profitability through custom reward function optimization.

EDUCATION

Master in Software Engineering
Universidad de los Andes
2025 - In Progress

B.S. in Statistics
Universidad del Valle
2011 - 2016

Data Science Diploma (DS4A)
Correlation One, 2022

Deep Learning Diploma
Univ. Autónoma Occidente, 2023

TECH STACK

AZURE AI & CLOUD

Azure AI Search

Doc Intelligence   Databricks

MLOPS & CORE

Python, SQL, PySpark, MLflow, Docker, CI/CD, Git.

AI FRAMEWORKS

PyTorch, TensorFlow, LangChain, Hugging Face.

CERTIFICATIONS

Intro to Version Control with Git and GitHub
Univ. de los Andes, Sep 2025

NLP Specialization
(RAG/Transformers)
Coursera, Jun 2025

- **Impact:** Deployed a churn prediction model with a **Lift of 5.0** integrated directly into retention systems.

Machine Learning Consultant   *Aug 2023 – Sep 2023*
Grupo CINTE

- **Observability:** Designed a methodology for *data/model drift* detection with automated alerts for retraining.
- **Efficiency:** Optimized LightGBM and Random Forest algorithms for better computational performance.

Data Scientist   *Mar 2023 – Jul 2023*
NAE

- **Business Impact:** Implemented a contactability model that increased campaign effectiveness by **60%**.

PyTorch Ultimate
Coursera, Mar 2025

MLOps and Databricks
Netec, Dec 2024

AWS Cloud Practitioner
Udemy