

# 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

Grupo CINTE

Aug 2023 – Sep 2023

- **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

NAE

Mar 2023 – Jul 2023

- **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