

ALEJANDRO ORTIZ PERDOMO

AI Engineer | Machine Learning Engineer

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PROFESSIONAL PROFILE

AI Engineer specialized in **GenAI/RAG** and **LLMs** with proven track record productionizing solutions on **Azure**. End-to-end experience from research to production deployment with **MLOps**. Developer of intelligent agents with **LangChain** for enterprise workflow automation. Combines strong mathematical foundation (Statistics) with modern software engineering (CI/CD, Docker) to build scalable and reliable AI systems.

WORK EXPERIENCE

AI Developer Consultant

Periferia IT

Jun 2025 - Present

- **CV-Job Matching System:** Built complete pipeline with **Azure Document Intelligence + AI Search** processing 500+ CVs/day with 95% extraction accuracy. Semantic search with embeddings reduced screening time by **70%**.
- **Intelligent Automation:** Implemented vectorization and optimized semantic chunking for candidate-job matching, improving recommendation quality by **40%** vs. traditional keyword search.
- **Impact:** System handling **10k+ searches/month** with <200ms latency. Stack: Python, Azure AI Search, Document Intelligence, FastAPI.

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

LANGUAGES

 **Spanish**
Native

 **English**
Professional Proficiency (B2/C1)

POWER SKILLS

Effective Communication

Problem Solving

Analytical Thinking

Team Collaboration

Adaptability

Continuous Learning

Time Management

Technical Leadership

CERTIFICATIONS

Intro to Version Control with Git and GitHub

Univ. de los Andes, Sep 2025

Machine Learning Engineer

Sep 2023 – Jun 2025

Global Hitss

- **GenAI & RAG:** Designed and deployed conversational agent with RAG that reduced support tickets by **40%**, processing **10k+ queries/month** with 85% resolution without escalation. Stack: LangChain, Azure OpenAI, FAISS.
- **MLOps:** Implemented CI/CD pipeline in **Databricks + MLflow** reducing deployment time from 2 weeks to **2 days**. Production models with automatic drift monitoring and retraining.
- **Reinforcement Learning:** Productized *Next Best Offer* (NBO) system with A/B testing that increased conversion by **15%** and revenue by **\$10k per person**.
- **Churn Model:** Developed predictive model with **Lift of 3.0** and 82% recall in top decile, integrated to CRM for proactive retention. Impacted **50k+ customers**.

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

- **Contactability Model:** Developed **LightGBM** model that increased effective contact rate by **60%** (from 25% to 40%), optimizing time windows and channels. Impacted campaigns with **100k+ contacts/month**.

OPEN SOURCE PROJECTS

Email Agent with LangChain github.com/alejortizp/email-agent

Intelligent agent that queries emails via IMAP, classifies with LLM, and generates contextual automatic responses. Reduces response time by **80%**.

Stack: LangChain, Azure OpenAI, IMAP, Python, Prompt Engineering

NL-to-SQL/Pandas Agent github.com/alejortizp/nl-to-code

Agent that translates natural language to SQL queries and Pandas operations. Includes code validation, secure sandbox execution, and automatic results visualization.

Stack: LangChain, SQL, Pandas, Code Interpreter, ReAct Pattern

RAG Restaurant Ordering System github.com/alejortizp/rag-ordering

Conversational ordering system with RAG over restaurant menu. Agent processes product selection in natural language, generates invoices, and calculates totals. Includes inventory management.

Stack: LangChain, FAISS, Azure OpenAI, FastAPI, Streamlit

NLP Specialization

(RAG/Transformers)

Coursera, Jun 2025

PyTorch Ultimate

Coursera, Mar 2025

MLOps and Databricks

Netec, Dec 2024

AWS Cloud Practitioner

Udemy

TECH STACK

GENAI & LLMS

LangChain ★★★★★ (Agents, RAG)

Azure OpenAI ★★★★★
(GPT-4, Embeddings)

Prompt Engineering
★★★★★

Vector DBs ★★★★★ (FAISS, Pinecone)

AZURE AI & CLOUD

Azure AI Search ★★★★★

Document Intelligence ★★★★★

Databricks + MLflow
★★★★★

ML/DL FRAMEWORKS

PyTorch ★★★★★ | **TensorFlow** ★★★★★

Scikit-learn, XGBoost, LightGBM
★★★★★

Hugging Face Transformers
★★★★★

MLOPS & ENGINEERING

Python, SQL, PySpark
★★★★★

Docker, CI/CD ★★★★★

FastAPI, Streamlit ★★★★★

Git, GitHub Actions ★★★★★