

# ALEJANDRO ORTIZ PERDOMO

## AI Engineer | Machine Learning Engineer

📍 Bogotá, Colombia

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[github.com/alejortizp](https://github.com/alejortizp)

🌐 [alejortizp.github.io/curriculum\\_HV](https://alejortizp.github.io/curriculum_HV)

## PROFESSIONAL SUMMARY

AI Engineer with proven experience productionizing **GenAI/RAG** solutions on **Azure**. Specialized in designing and deploying **intelligent agents** with **LangChain** and **Azure OpenAI** for enterprise automation. Track record processing **10k+ queries/month** with conversational agents and semantic matching pipelines with **95%** accuracy. Combines Master in Software Engineering (in progress) with a Statistics foundation to design scalable, production-ready 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)

## KEY SKILLS

Effective Communication

Problem Solving

Analytical Thinking

Team Collaboration

Adaptability

Continuous Learning

Time Management

Technical Leadership

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 – Sep 2023 (Short-term project)

Grupo CINTe

- **ML Observability:** Designed comprehensive monitoring methodology for *data/model drift* detection with automated retraining alerts, adopted as the data science team's standard.
- **Optimization:** Audited and optimized LightGBM and Random Forest algorithms, improving computational efficiency and reducing inference times.

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**.

Data Scientist II

May 2022 – Jan 2023

Xolit

- **Payment Propensity Model:** Developed predictive model for payment probability and portfolio agreement, maximizing collection through **automated management priorities** based on propensity scores.
- **Recommendation System:** Implemented optimal contact time-slot recommendation engine per account holder, increasing debt collection management effectiveness.
- **Customer Segmentation:** Designed clustering-based marketing strategy for account holders, enabling personalized communication per segment to optimize collection rates.
- **Monitoring:** Built **Power BI** dashboards for tracking collection KPIs and production model performance metrics.

CERTIFICATIONS

AI-102: Microsoft Certified Azure AI Engineer Associate

Udemy, Feb 2026

NLP Specialization (RAG/Transformers)

Coursera, Jun 2025

PyTorch Ultimate

Coursera, Mar 2025

MLOps and Databricks

Netec, Dec 2024

AWS Cloud Practitioner

Udemy, Feb 2022

TECHNICAL SKILLS

(years exp.)

GENAI & LLMS

LangChain 2+ (Agents, RAG)

Azure OpenAI 2+ (GPT-4, Embeddings)

Prompt Engineering 2+

Vector DBs 2+ (FAISS, Pinecone)

AZURE AI & CLOUD

Azure AI Search 1+

Document Intelligence 1+

Databricks + MLflow 3+

ML/DL FRAMEWORKS

PyTorch 2+ | TensorFlow 3+

Scikit-learn, XGBoost, LightGBM 4+

Hugging Face Transformers 2+

MLOPS & ENGINEERING

Python, SQL, PySpark 7+

Docker, CI/CD 2+

FastAPI, Streamlit 3+

Git, GitHub Actions 4+

# OPEN SOURCE PROJECTS

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## Email Agent with LangChain

— [github.com/alejortizp/email-agent](https://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](https://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](https://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