ALEJANDRO ORTIZ PERDOMO

AI Engineer | Machine Learning Engineer

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LinkedIn | alejortizp | 🌐 Portfolio

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   Jun 2025 - Present
Periferia IT

- **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

AI-102: Microsoft Certified Azure AI Engineer Associate
Udemy, Feb 2026

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

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

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 ⭐⭐⭐⭐