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

Machine Learning Engineer
Global Hitss
Sep 2023 – Jun 2025

Machine Learning Consultant
Grupo CINTE
Aug 2023 – Sep 2023

Data Scientist
NAE
Mar 2023 – Jul 2023

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

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

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 ⭐⭐⭐⭐

🛒 RAG Restaurant Ordering System

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

MLOPS & ENGINEERING

Python, SQL, PySpark
⭐⭐⭐⭐⭐

Docker, CI/CD ⭐⭐⭐⭐

FastAPI, Streamlit ⭐⭐⭐⭐

Git, GitHub Actions ⭐⭐⭐⭐

POWER SKILLS

Effective Communication

Problem Solving

Analytical Thinking

Team Collaboration

Adaptability

Continuous Learning

Time Management

Technical Leadership

LANGUAGES

🇪🇸 **Spanish**
Native

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

CERTIFICATIONS

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