

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

github.com/alejortizp/rag-ordering

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