



# ADRIÁN NAVARRO

AI ENGINEER | VISUAL ANALYTICS | DATA SCIENCE

## CONTACT

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🌐 [adrian-ai-datascience](#)

🌐 [Portfolio](#)

## PROGRAMMING

PYTHON RUST SQL

JAVA C++ SOLIDITY

## GEN AI&NLP

LANGCHAIN LANGSMITH

RAGAS HUGGING FACE

OPENAI CLAUDE GEMINI

LLAMA DEEPSEEK RAG

QWEN MULTI-AGENT RL

GRPO FINE-TUNING

PROMPT ENGINEERING

AI GUARDRAILS

## CLOUD&DEVOPS

AWS AWS CDK AZURE

GCP GITHUB ACTIONS

DOCKER KUBERNETES

REDIS PINECONE FAISS

## DATA SCIENCE

SECURITY PROTOCOLS

SYSTEM DESIGN PYTORCH

TENSORFLOW NUMPY

PANDAS REFACTORING

PARALLERIZATION

HADOOP PYTORCH

LATENCY REDUCTION

AGILE TRELLO

## LANGUAGES

• English **C1 High**

Full Professional Proficiency.

• Spanish **Native**

• Catalan **Native**



## PROFILE



My goal is to work in an AI product group where I can contribute to the end-to-end development of production-grade **Generative AI systems** while staying at the **forefront of the field**. I have led AI initiatives across the **full SDLC**, from strategic planning and POC design to MVP development and scalable deployment, making key architectural decisions around vector databases, embedding optimization, and high-performance retrieval strategies.

I have demonstrated experience working with **cloud platforms** such as **AWS** and **Microsoft Azure** and a strong background in Generative AI, having designed and deployed multiple RAG systems and AI-driven solutions for diverse clients. My expertise includes **LangChain**, **model fine-tuning**, **and rigorous evaluation** and benchmarking using Ragas to ensure deterministic and reliable outputs in enterprise environments.

My undergraduate thesis, **Summarization of Large Text Volumes Using LLMs**, evolved into a research paper that I had the honor of presenting as a poster at the **KDD24 Congress**.

## WORK EXPERIENCE



**Minsait (Indra Group) | AI Engineer & NLP Specialist**

June 2024 – Present

- **Full Lifecycle Ownership:** Leading AI initiatives from strategic planning and POC design to MVP development and production-grade deployment (SDLC).
- **Architectural Decision-Making:** Owner of critical decisions regarding vector database selection (Elasticsearch, Pinecone, etc.), embedding optimization, and high-performance retrieval strategies.
- **Performance Engineering:** Refactored and parallelized complex AI pipelines, achieving an **80% reduction in processing latency** for enterprise clients.
- **Advanced NLP Solutions:** Designed **multi-agent workflows and RAG systems** using **LangChain**, **LangSmith**, **Gemini**, **Anthropic**, and **OpenAI**, integrated with AI Guardrails.
- **Enterprise Evaluation:** Established rigorous benchmarking using Ragas to measure **faithfulness and precision**, ensuring deterministic outputs in production.
- **Cloud & DevOps:** Architected scalable AI pipelines on Azure and AWS using Infrastructure as Code (AWS CDK) and **CI/CD via GitHub Actions**.



**Hiberus (Grupo Henneo) | ML & AI Engineer**

June 2023 – Sept 2023

- Developed **computer vision** algorithms using Python and **PyTorch** for pattern recognition.
- Prototyped initial LLM-based workflows and optimized resources on Microsoft Azure.

## EDUCATION



**BSc in Mathematical Engineering in Data Science | UPF**

2020 – 2024

Academic Rank: #1 in class. Average grade: 8.26. Courses taught in English.

- **Honors:** Linear Algebra, Algorithm Design, Visual Analytics, and Project Management.
- **Statistics & Data Analysis:** Application of statistical methods using **NumPy/Pandas** and large-scale visualization (**Streamlit**, **Tableau**).
- **Machine Learning & Big Data:** TensorFlow, PyTorch, distributed computing (Hadoop, GraphX), and **NLP/CV via Hugging Face**.
- **Programming & Product Management:** Advanced programming, prototyping, and cloud-based AI product management.

## KEY MILESTONES



- 🏆 **2026 Full-Stack AI Product Development:** Independently designed, built, and deployed personal secure AI applications.
- 🏆 **2025 Professional Data Engineer Certification:** Google Cloud Platform (GCP) certified specialist.
- 🏆 **2025 Fine-tuned a reasoning model (GRPO)** for complex integral resolution, achieving a **94% improvement**.
- 🏆 **2024 Innovation Award at HackEPS 2024** for a project integrating **VR and AI** agents.
- 🏆 **2024 Published and presented Research Paper** at **ACM KDD24 Congress**.