Juan Navarro

Machine Learning Engineer | Generative AI & RAG Specialist

Spain, Valladolid Open to **remote** work Willing to **relocate**

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Professional Summary

AI & ML Engineer with 2+ years specializing in **Generative AI, Retrieval-Augmented Generation (RAG), and LLM Fine-Tuning**. Passionate about creating innovative, scalable AI solutions leveraging both cloud APIs and local deployments to optimize resources, enhance data privacy, and maximize performance. Natural leader with exceptional creativity and rapid adaptability.
Currently seeking fully remote opportunities in Generative AI & ML.

Technical Skills

ML & NLP	- RAG (Retrieval-Augmented Generation), GPT/BERT/LLaMA Fine-Tuning - Sentiment Analysis, Embeddings, Conversational AI
Frameworks & Programming	- Python (Advanced), Rust (Learning), JavaScript - TensorFlow, PyTorch, Keras, Hugging Face Transformers - FastAPI, Flask, React
Cloud, DevOps & MLOps	- Google Cloud AI, Azure AI, Firebase - Docker, GitHub Actions, CI/CD pipelines, basic Kubernetes knowledge
Databases & Vector Stores	- PostgreSQL, MongoDB, FAISS, Pinecone (basic)

Professional Experience

Co-Founder & AI Engineer – *Founders Of Tomorrow AI*
Spain - (Jan 2024 – Present)

- Led the development of RAG-based chatbots for personalized learning experiences.
- Integrated LLMs (GPT-3.5/4) and FAISS vector stores to achieve 50% faster data retrieval.
- Coordinated a small team (4 members) and built scalable ML pipelines.

Machine Learning Engineer – *MaiaCorp*
Philippines - (Feb 2024 – Feb 2025)

- Built an AI-powered academic writing platform using local RAG systems combined with Firebase and PostgreSQL, balancing performance, cost-effectiveness, and data security.
- Engineered ML pipelines and API services optimized for local deployment scenarios, significantly improving efficiency.

Selected Projects

UpgradeBots (Local & API-integrated RAG Educational Platform):
Developed a personalized educational chatbot platform capable of generating dynamic lessons, adaptive exercises, and customized learning paths. Integrated RAG, GPT-3.5/4 (via OpenAI API), FAISS, and embeddings both locally and via cloud services to ensure optimal performance and data security.

Educational Quiz Generator: Implemented local RAG solutions for scientifically accurate quiz content verification, ensuring privacy and fast response.

Viral AI Content Generator: Multimodal generative platform (text, images, audio) leveraging GPT, Stable Diffusion, TTS integration, built with React & FastAPI, optimized for both API and local deployments.

Education

- AI & Data Science Bootcamp – Upgrade Hub (2024)
- B.A. in Dramatic Arts – Valladolid (2020)
- Azure Computer Vision Fundamentals – Microsoft

Additional Info

- Availability: Immediate (Full-time)
- Keen on AI innovation, automation, and continuous learning