Rafael Arias Navarro — AI Engineer

✉ ariasnavarrorafael@gmail.com 📞 +57 3005795898 📍 Barranquilla, Colombia 🐙 rariasnav in Rafael Arias Navarro

🪪 PROFILE

AI Engineer and Python Developer with hands-on experience building intelligent systems using LLMs, LangChain, and Streamlit. Proven ability to design end-to-end AI pipelines, perform semantic search using vector databases (FAISS), and apply RAG architectures. Strong skills in backend development, automation, and chatbot solutions.

🧠 SKILLS

LLMs • LangChain • OpenAI API • FAISS • Vector Embeddings • Python • Flask • Streamlit • BeautifulSoup • Semantic Search • RAG pipelines • Data Processing • Web Scraping • Git • Github • Docker • API development • SEO Optimization

📂 PROJECTS

LLM-Powered PDF Assistant ⧉
- Developed a semantic question-answering system using LangChain, FAISS, and Streamlit.
- Enabled natural language queries over scientific PDFs using chunking, embedding, and retrieval.
- Integrated OpenAI for high-accuracy generative answers.

AI SEO Automation Platform ⧉
- Designed tools to automate SEO processes (link juice distribution, content visibility) using Python, Django, Redis, and scraping logic.
- Applied clustering and NLP techniques to improve SERP performance.

Personal AI Assistant Chatbot, Python, Flask, OpenAI API, Selenium, PyMuPDF (Fitz), Web Scraping
- Built a context-aware AI assistant capable of retrieving structured data from PDFs and analyzing LinkedIn insights.
- Integrated OpenAI's GPT models with advanced prompt engineering to improve chatbot responses.
- Automated social media data extraction using Selenium and web scraping.

🎓 EDUCATION

Full Stack Software Developer, 4Geeks Academy — 07/2023 – 05/2024 | Remote

Accountant, Universidad del Atlántico — 2014 – 2022 | Barranquilla, Colombia

Diplomado en Inteligencia Artificial – Nivel Básico, Universidad Libre — 2025

💼 PROFESSIONAL EXPERIENCE

Python AI Engineer, 4Geeks Academy ⧉ — 09/2024 – 11/2024
- Designed and optimized backend services for AI-powered automation.
- Integrated Django to enhance system performance and security.
- Implemented data processing pipelines for handling large-scale AI-driven tasks.
- Applied RAG techniques to improve chatbot responses and document retrieval accuracy.

Full Stack Developer, DevLabs — 01/2025 – 05/2025
- Contribute to the ongoing development of a business management system for handling expenses and costs across multiple branches.
- Collaborate with the team to identify and resolve bugs, ensuring high-quality performance and user satisfaction.
- Refactor existing code to improve maintainability and efficiency, implementing best practices for scalable applications.
- Maintain thorough documentation to promote understanding and adherence to best practices within the development team.

🌐 LANGUAGES

Spanish
Native

English
Fluent