Aymane Nouhail

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About Me :

AI-oriented Data Scientist focused on building and maintaining Retrieval-Augmented Generation (RAG) and agentic applications using modern software engineering practices (Git, Docker, CI/CD, modular design).

Education

Université Paris Cité, Master's in Machine Learning for Data Science – Paris, France   Sept 2024 – present

Mohammed VI Polytechnic University, Bachelor's in Data Science – Benguerir, Maroc   Sept 2021 – June 2024

Experience

Data Scientist, Publicis Re:Sources – Paris, France   Oct 2024 – present
Collaborated with the Generative AI team, to design and deliver AI-driven marketing solutions like FileGPT; monitor metrics via Azure Application Insights.

- Built a RAG-based radio-ad generator for Carrefour, ingested 500+ campaigns into a database to automate scripts, cutting production time and boosting output by 30%.
- Packaged and deployed a containerized FastAPI microservice to Azure App Service via ACR; exposed endpoints for document summarization and translation and set up GitHub Actions CI/CD.
- Introduced mocking AgentExecutor in FileGPT unit tests to simulate LangChain workflows, cut test runtime from seconds to fractions of a second.
- Added multimodal (image, video, audio) support to FileGPT, enabled ingestion, embedding, and retrieval of multimedia alongside text.
- Launched a front-end agent configuration panel in FileGPT; migrated settings from static files to a Prisma-managed database for scalability and iterated on user feedback.

Data Science Intern, Green Energy Park – Ben Guerir, Maroc   Apr 2024 – July 2024
Built a RAG-based voice-assistant POC designed for use on a Raspberry Pi for smart-home control, integrating natural-language device automation.

- Built a voice assistant with a user interface allowing natural interaction (text or voice) to control the company's smart home system, with hands-free activation using a trigger word.
- Built a RAG-based agent for natural-language control of smart home devices (lights, appliances) and multimedia (audio/video), plus knowledge-base Q&A.

Projects

MoodAI Therapy Assistant (Proof-Of-Concept)
Dynamic journaling app with mood-aware chatbot personas that adapt tone based on user sentiment.

- Developed a RAG pipeline mapping journal sentiment to tailored CBT-based prompts for personalized guidance.
- Containerized FastAPI service with async LLM inference endpoints, deployed to Azure.
- Integrated weekly/monthly sentiment analysis into a time-series database for longitudinal mood tracking, with CSV export for user/therapist review.
- Implemented a React-based dashboard prototype to visualize mood trends and AI recommendations over time

Skills

Programming: Python, OOP, Git, LangChain, RESTful APIs (FastAPI), Docker, Azure (App Service, ACR), CI/CD pipelines, relational databases (PostgreSQL/MySQL) with Prisma ORM

Mathematics: Calculus, Linear Algebra, Probability, Statistics, Machine Learning Algorithms

Languages: English: C1 – IELTS (7.5/9), French: C1 – TCF (566/699)