

ANNE Mahamadou

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🏠 Oujda – Morocco

🔗 [My Portfolio \(anne.is-a.dev\)](https://anne.is-a.dev) | 💼 [\[LinkedIn\]](#)

PROFILE

High-achieving engineering student (Ranked 1st Nationally in High School Exams), specializing in Data Science and Cloud Computing. Deeply passionate about AI development, machine learning, and cloud infrastructure deployment.

SKILLS

- ✓ **Data Science & IA:** Python (Pandas, Scikit-learn, Tensorflow), RAG, LangChain, Langgraph.
- ✓ **Data Engineering & BI:** SQL Server Analysis Service (SSAS), Talend, Power BI.
- ✓ **Cloud & DevOps:** AWS, Terraform, Docker, Kubernetes, CI/CD pipelines, Git.
- ✓ **Database:** MySQL, Oracle, SQL Server, MongoDB (NoSQL).
- ✓ **Development:** TypeScript (NextJS, React), Java (Spring Boot).

PROFESSIONAL EXPERIENCE

Assistant Engineer | CRAA-Technologie, Bamako (Mali)

July 2025 – August 2025

- **AI Agent Engineering:** Designed, developed, and integrated an AI-powered conversational chatbot leveraging Retrieval-Augmented Generation (RAG) to automate customer support on the company website
- **R&D and Technical Writing:** Authored comprehensive technical documentation on AI Agent architectures and deployment workflows for the engineering team.

Academic & Cultural Officer | ESSIE Board, Oujda (Morocco)

2023 – 2024

- **Project Management:** Headed the organization of major scientific symposiums and cultural days for the Sub-Saharan Engineering Student Association.
- **Leadership:** Coordinated academic integration programs and extracurricular initiatives for incoming international students

FEATURED PROJECTS

Predictive Credit Risk Analysis (Finance)

[\[Code GitHub\]](#)

- **Goal:** Investigated critical data features driving interest rates on commercial bank loans.
- **Tech:** Python, Scikit-Learn, Statsmodels, Advanced Regression.

Inflammatory Bowel Disease Detection (Computer Vision)

[\[Code GitHub\]](#)

- **Goal:** Built a deep learning workflow to automate medical diagnoses from endoscopic imaging datasets.
- **Tech:** Python (Pytorch & Keras), Deep Learning (utilizing ResNet & ViT), Kaggle, Google Colab.

AI Legal Research Assistant (NLP & RAG)

[\[Code GitHub\]](#)

- **Goal:** Designed a domain-specific RAG system to navigate, query, and analyze articles of the Moroccan Constitution with precise citation retrieval.
- **Tech:** Python, GenAI, RAG, NLP, Vector Embeddings, HuggingFace.

Social Media AI Agent (Autonomous AI)

(Private source code – Available on demand)

- **Goal:** Developed an autonomous multi-platform AI agent for automated trend analysis, content curation, and scheduled social engagement (LinkedIn, X/Twitter, Reddit).
- **Tech:** Python, LangChain, LangGraph, OpenAI / LLMs, Vector Embeddings, REST APIs.

E-Commerce Platform | (Private code source – Available on demand)

- **Goal:** Developed high-performance full stack e-commerce platform for high traffic handling.
- **Tech:** Spring Boot (Java), NextJS, Kubernetes, CI/CD pipelines, AWS.

Cloud Infrastructure & DevOps Automation | [\[Documentation & Code\]](#)

- **Goal:** Architected automated cloud infrastructure and deployment pipelines on AWS for an automotive product catalog.
- **Tech:** Terraform (IaC), AWS (EC2, ECS, EKS, S3, RDS), Docker, CI/CD pipelines.

Enterprise Client Support Chatbot (GenAI) | (Private enterprise source code)

- **Goal:** Built an intelligent RAG conversational assistant to automate customer support and company policy inquiries with real-time streaming answers.
- **Tech:** Python, LangChain, RAG Architecture, Vector Databases (ChromaDB/Pinecone), LLMs.

EDUCATION

- **State Engineer Degree (In Progress)** | **Data Science & Cloud Computing**
National School of Applied Sciences (ENSA) – Oujda, Morocco | **2022 – Present**
 - **Scientific Baccalaureate** | **Exact Mathematical Sciences** | **2022**

Distinction: Highest Honors (Mention Très Bien) – **Ranked 1st** Nationally in Mali.

LANGUAGES: French – C1 (Fluent), English – B2 (Professional), Arabe – Basic Communication.
