

ISMAIL ALLOUCH

Software & AI Student

allouchmail92@gmail.com | +212 6 28 67 02 40 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)



PROFILE

4th-year engineering student focused on **Agentic AI**, **RAG architectures** (Self-RAG, Agentic RAG), and **LLM-powered automation**. Experienced in multi-agent systems, RAG pipelines, and full-stack AI solutions. Seeking a 4th-year internship in AI Engineering or Applied ML.

EDUCATION

Engineering Degree – Software Engineering & Intelligent Systems 2023 – Present (4th Year)
École Nationale Supérieure des Arts et Métiers (ENSAM), Meknès

Baccalauréat – Sciences Mathématiques B, Mention Bien 2022

EXPERIENCE

1st Place – Yazaki Morocco x ENSAM Meknes Competition 2026

- Built an enterprise AI platform to digitalize engineering workflows using Next.js, Prisma, and Gemini 2.5 Flash.
- Engineered an advanced multi-stage RAG system (LangChain, ChromaDB) with contextual query decomposition.

Freelance AI & Data Automation Developer – Leanflow Pro Mar 2026 – Present

- Developed Python scraping pipelines to extract, structure, and classify leads automatically via LLMs.

AI Automation (Alternance) – M’covery Jan 2026 – Mar 2026

- Designed AI-powered automation workflows using **n8n** for business process optimization.
- Integrated LLM-based pipelines for intelligent data processing and decision-making.

Full-Stack Developer (Internship) – Eventi Production Jul 2025

- Developed a MERN-stack client review app with thematic analysis using **NLP** and **LDA** topic modeling.

Semi-Finalist – Techathon 2025, Capgemini | Winner – n8n AI Automation, Club IA 2025

PROJECTS

JobGPS (jobgps.ma) – AI-Powered Career Intelligence Platform React 19, Express, Flask, Gemini AI
Full-stack platform with **RAG pipeline** (ChromaDB + Gemini 2.5 Flash) over **8 100+ entries**. CV scoring (6 dimensions, NLP/SpaCy), ATS check, semantic job matching, career roadmap, bilingual cover letter generator, interview chatbot. Dual dashboards (students & recruiters), application pipeline, messaging. JWT, Supabase RLS, REST APIs.

AI Cybersecurity Copilot – Vulnerability Analysis Platform Spring Boot, RAG, Kubernetes
AI platform for automated **CVE analysis** with **multi-agent RAG** (Pinecone). **Spring Boot** microservices, OAuth2/JWT, real-time streaming (**Kafka**), DevSecOps assistant, auto-patching. **Docker & Kubernetes**, CI/CD.

Multi-Agent RAG System for Document Intelligence LangGraph, LangChain, CrewAI
Agentic RAG system with specialized agents for retrieval, routing, generation, and **Self-RAG** validation. LangGraph orchestration, dynamic tool calling, MCP protocol.

2D-Campus – Intelligent University Housing Platform React, Node.js, Supabase, LangChain
Platform for Euromed Fès with **RAG chatbot** (LangChain + Gemini + pgvector), JWT, interactive SVG map, analytics dashboards. Agile/Scrum.

Agri-Gen – No-Code SaaS for Smart Agriculture React, Flask, Gemini AI, IoT
Natural language to IoT firmware via **generative AI**. Auto code generation for sensors/actuators – 96% setup time reduction.

TECHNICAL SKILLS

LLM & Agentic AI	LangChain, LangGraph, CrewAI, RAG, Self-RAG, Agentic RAG, MCP Protocol, A2A Protocol
ML / DL / NLP	scikit-learn, TensorFlow, PyTorch, NLP, Reinforcement Learning, Deep Learning
AI Automation	n8n, Workflow Orchestration, Webhooks, API Integration
Backend & DevOps	Node.js, Express, Spring Boot, ASP.NET, Flask, REST API, Docker, Kubernetes, Kafka
Frontend	React.js, TailwindCSS, HTML/CSS, JavaScript
Databases	PostgreSQL, SQL, NoSQL, Supabase, pgvector, ChromaDB, Pinecone, Sharding, Indexing
Languages	Python, Java, C++, JavaScript, SQL, R

CERTIFICATIONS

- Intro to AI Agents and Agentic AI – 365 Data Science
- Building LLM Apps with LangChain – DataCamp
- Building AI Agents with CrewAI – DataCamp
- CS221: AI Principles & Techniques – Stanford
- Multi-Agent Systems with LangGraph – DataCamp

LANGUAGES

Arabic (Native) | French (Fluent) | English (Fluent) | Turkish (Fluent)