

Ahmed Bassoul

Data Scientist & Machine Learning Engineer

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Profile

Data Scientist and Machine Learning Engineer specialising in **NLP, LLMs, RAG** and autonomous AI agents, and also a **full-stack** developer (TypeScript, React, Next.js, Node.js). Experienced in designing ML pipelines, fine-tuning models and automating business processes.

Professional Experience

02/2026 – present	AI Agent Developer — Remote Mendo, Paris, France Designed and deployed multi-agent workflows with n8n , cutting manual processing by 60% across 10+ business processes. Built RAG pipelines (LangChain , LlamaIndex , Pinecone/ChromaDB) and fine-tuned models with PyTorch/Hugging Face (+25% accuracy). Integrated AI agents with external APIs (REST, Webhooks) to automate end-to-end workflows.
06/2026 – 09/2026	Full-Stack TypeScript Developer / AI Engineer - Remote Cylindrique Consulting, Paris, France Developed a full-stack SaaS platform (3 portals, 15+ modules) in TypeScript , Next.js 16 (App Router, Server Components) and React 19 . Designed the backend on Supabase/PostgreSQL with Row-Level Security and Zod validation on both client and server. Integrated Stripe , KYC and e-signature through REST APIs and signed webhooks ; CI/CD (GitHub Actions), Vitest/Playwright testing, Vercel deployment.
09/2025 - 12/2025	Intern — Business Intelligence & Product Analytics AGH Data Agency Holding, Meknes Ran a competitive benchmark of 15+ mobile applications and delivered a Power BI report supporting marketing decisions.
02/2025 - 08/2025	Final-Year Intern — Cybersecurity & AI DataProtect, Casablanca Developed a User Behaviour Analytics (UBA) model and a log analysis pipeline built on the ELK stack . Integrated an LLM for anomaly detection, reducing false positives by 30%.

Education

2023 – 2025	Master’s Degree in Information Systems Management (M2SI) INSEA, Rabat Specialisation: Intelligent Systems, Data Science & AI.
2020 – 2023	Bachelor’s Degree in Mathematical Sciences and Computer Science (SMI) Faculty of Sciences Dhar El Mahraz, Fez

Technical Skills

Languages	Python (Advanced), R, Java, C, SQL, Bash.
ML & Deep Learning	Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, Pandas, NumPy, Hugging Face, CNN, RNN, ViT, OCR.
LLM & Generative AI	LangChain, LlamaIndex, RAG, Prompt Engineering, Fine-tuning, Embeddings, Autonomous AI Agents, n8n.
Web & Full-Stack	TypeScript, JavaScript, React, Next.js, Node.js, PHP/Laravel, HTML/CSS, Tailwind, REST APIs, Supabase, Zod.
Data & DevOps	PostgreSQL, MySQL, Oracle/PL-SQL, MongoDB, vector databases (Pinecone, ChromaDB, FAISS), Airflow, ETL, Power BI, ELK/SIEM stack, Docker, Git/GitHub, GitHub Actions (CI/CD), Vercel, Vitest/Playwright.
Languages (spoken)	Arabic (Native), French (Fluent), English (Professional).

Personal Projects

2024 – Present	SafeKids — AI-powered Chrome extension for child safety Built a real-time content moderation system with a local LLM (Llama 3.2 via Ollama), classifying messages into 10 risk categories, with a monitoring dashboard. Designed a full-stack solution (FastAPI, SQLite + Alembic, Chrome MV3, Pytest) with 100% local inference to preserve privacy.
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Certifications

2024	Google Data Analytics Professional Certificate — Google (Coursera).
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