



SAAD TADJAOUI

AI/ML Engineer — LLM Agents, Machine Learning, End-to-End Solutions

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[LinkedIn](#) • [GitHub](#) • [Portfolio](#)

Availability: end-of-studies internship (PFE) from February 2027 • flexible duration • open to Morocco & international.

PROFILE

Final-year engineering student who builds AI/ML solutions end to end — from the real business need through to production. I design and ship LLM agents, machine-learning pipelines and the full-stack systems that run them. Currently building an end-to-end AI agent platform at EHC Groupe. Strong in Python, machine learning and LLM integration, with a business-aware perspective from my Business & Data Management background. Fluent in English, French and Arabic.

EXPERIENCE

Software Development Intern — EHC Groupe

Jul 2026 – Present

End-to-end AI recruitment agent platform — Casablanca

- Building a platform that automates a full business process: content generation, CV parsing, candidate scoring, interview scheduling and onboarding follow-up — an LLM agent driven by prompts and the Claude API, orchestrated with n8n.
- Engineering decisions: a dual-engine design that falls back to a deterministic rules engine when the LLM API is unavailable, and a deterministic, explainable scoring. Degraded mode, full event log, 38/38 end-to-end tests passing.
- Stack: Next.js/React, Node.js/Express with Socket.IO (real-time), Python/FastAPI, MongoDB, Docker Compose.

AI Automation Consultant — EHC Groupe

May 2026 – Jun 2026

- Mapped the end-to-end business process and wrote the functional specification (data model, workflows, business rules) that became the platform blueprint.

Assistant Process Engineer Intern (Data Science) — OCP Group

Jul 2025 – Aug 2025

- Collected and preprocessed industrial data; developed and evaluated ML classification models to support process optimization.

MACHINE LEARNING PROJECTS

Smart Supply Forecaster — closed-loop MLOps pipeline

Python • XGBoost • MLflow • Airflow • Docker

- FastAPI serving with prediction logging, Airflow monitoring of 14-day rolling RMSE triggering retraining, chronological validation with no data leakage, and a promotion audit — a new model ships only if it beats the one in production.

Athena Core — decision-support platform

Python • Scikit-learn • Streamlit

- Revenue forecasting (Random Forest, $R^2 \approx 0.92$ on the test set), anomaly detection (Isolation Forest), recommendation engine, RFM segmentation and KPIs, with auto-generated strategic frameworks.

AI Compass — full-stack LLM comparison app

Next.js • TypeScript • Prisma/PostgreSQL

- Deployed web app comparing LLMs on published benchmarks and pricing: relational data model, REST API with filtering/sorting, responsive React dashboard.

EDUCATION

State Engineering Degree — Industrial Engineering, Business & Data Management 2024 – 2027 (expected)

ESITH, Casablanca, Morocco

- Machine learning, deep learning, data science & AI, generative AI, Big Data, Python (3 levels), databases, cloud computing & cybersecurity, architecture & ERP.

CPGE — Preparatory Classes for Engineering Schools (MPSI / MP)

2022 – 2024

Centre Acharif Al Idrissi, Taza, Morocco

SKILLS & TOOLS

AI & Machine Learning: Python, Scikit-learn, XGBoost, PyTorch, model evaluation & monitoring, drift detection, MLflow, Airflow, LLM agents, generative AI (Claude API), prompt engineering, RAG.

Development: FastAPI, Node.js/Express, Socket.IO, Next.js/React, TypeScript, REST APIs, MongoDB, PostgreSQL, SQL, Docker, Git.

Data: data collection, preprocessing & analysis, feature engineering, Pandas, NumPy, Power BI, dashboards & KPIs.

Languages: Arabic (native) • French (fluent) • English (fluent) • Spanish (basic).

CERTIFICATIONS & LEADERSHIP

- Workflow Automation with n8n (DataCamp) • McKinsey Forward Program (2025) • Google Project Initiation • Google UX Design.
- Lead, Prospecting Unit — ESSOR Junior Entreprise (Jun 2025 – Present).