Badr Laklach
Software Engineering Student

National School of Arts and Crafts (ENSAM), Meknes
Software Engineering & Intelligent Systems — 4th Year

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Education

• **National School of Arts and Crafts (ENSAM), Meknes** — *4th Year – In Progress*
Engineering Degree in Software Engineering & Intelligent Systems — 2022 – Present

• **Baccalaureate in Mathematical Sciences A**
Honors: Good — 2022

Certifications

• **Oracle Cloud Infrastructure 2025 – Data Science Professional**
Oracle | Python, ML development, MLOps, cloud-based AI deployment — Oct 2025 – Oct 2027

• **Oracle Cloud Infrastructure 2025 – Foundations Associate**
Oracle | Cloud architecture, IAM, networking, compute, storage, databases — Oct 2025 – Oct 2027

• **PCEP – Certified Entry-Level Python Programmer**
Python Institute via Cisco Networking Academy — Aug 2025

Experience

• **Mobile Developer Intern** — *Meknes, Morocco*
Med You In (On-site) — Jul 2025 – Aug 2025
  – Built two production Flutter apps (HR Admin Interface & E-commerce) with enterprise-grade stability and sub-3s launch times.
  – Implemented secure auth with Supabase (PostgreSQL + Auth) and Google OAuth 2.0; real-time data sync via Clean Architecture.
  – Managed UI state with GetX; integrated Firebase Cloud Messaging and built automated HR analytics dashboards.

Projects

• **DariPredictor — End-to-End Real Estate Prediction Web Application**
Full-Stack Website | Python | XGBoost | FastAPI | React/Vite | Docker
  – Developed a comprehensive web application to predict Moroccan real estate prices using advanced Machine Learning.
  – Scraped and cleaned ~20k listings with custom Crawlee spiders; applied Target Encoding and luxury feature engineering.
  – Benchmarked RF, XGBoost, ANN, SVM; final Stacking Ensemble achieved $\mathbf{R^2=0.842}$.
  – Deployed as a responsive website with Docker, async FastAPI backend, and React/Vite frontend wizard.

• **XP-FIT — Gamified Fitness Mobile Application**
Flutter | REST APIs | UI/UX Design
  – Led UI/UX design and home page logic; built XP reward system based on weight tracking for gamified motivation.
  – Integrated fitness and nutrition APIs for comprehensive health tracking; developed with a team of three.

• **Local Network Management Tool — Excel VBA**
VBA | Macros | Excel Tables | Userforms
  – Built a VBA desktop app for IP address tracking, bandwidth visualization, and network inventory management.

Activities & Leadership

• **MoroccoAI Hackathon — Participant**
Gadz'IT Club | Built an AI-based solution with a multidisciplinary team — 2024

• **ENSAM Student Clubs — Active Member**
CS & Music Clubs | Co-organizer ENSAM Forum 21st ed. | Integration Week Tutor — 2022 – 2024

Technical Skills

Languages: Python, Java, C++, C, JavaScript, Dart, SQL, Bash, VBA
Mobile & Web: Flutter, GetX, React, Vite, FastAPI, Node.js, Express.js, Spring Boot, JavaFX
ML / Data Science: XGBoost, LightGBM, CatBoost, scikit-learn, TensorFlow, Pandas, NumPy
Data Engineering: Web Scraping (Crawlee, BeautifulSoup), Feature Engineering
Databases: PostgreSQL, MySQL, MongoDB, Supabase, Oracle
DevOps & Tools: Git, Docker, Firebase, Android Studio, IntelliJ, VS Code
Concepts: OOP, Design Patterns, Data Structures & Algorithms, Agile/Scrum
Languages: Arabic (Native), French (C1), English (C1)

Interests

Music: Guitarist (3 yrs), beat production & composition   **Sports:** Weekly gym training   **Tech:** AI & Data Science