Abdelilah Nossair

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Profile

First-year MSc student in **Data Science and AI for Business (X-HEC)** at **École Polytechnique and HEC Paris**. Experienced in building and evaluating Machine Learning, GenAI, and Computer Vision models through applied research and consulting internships. Eager to deepen technical expertise and apply analytical problem-solving in a **4 to 6-month Data Science / AI internship starting April 2027.**

Education

École Polytechnique (l'X) & HEC Paris, Palaiseau / Jouy-en-Josas, France — *Sep 2026 – Expected 2028*
MSc&T in Data Science and AI for Business
- Ranked **#2 worldwide** in the QS Masters in Business Analytics Rankings (2026 & 2027).

Al Akhawayn University in Ifrane (AUI), Morocco — *Sep 2021 – May 2025*
BSc in Computer Science (AI specialization) · Minor in Business Administration
- CGPA **3.93/4.0**, **Summa Cum Laude**, President's List. **GRE:** Quant 170/170, Verbal 169/170, AW 5.0.
- Exchange semester at **Baylor University**, USA (Fall 2023): GPA 3.80/4.0, Dean's List.
- **Coursework:** AI, Natural Language Processing, Machine Learning, Linear Algebra, Statistical Analysis.

Professional Experience

Data Analyst (Full-Time) — *Casablanca, Morocco*
Optorg Group – Tractafric Equipment — *Oct 2025 – Aug 2026*
- Designed a **multi-source data architecture** unifying ERP, CRM, after-sales, telematics, finance and maintenance data across 5+ operational areas into a reliable analytical layer for KPIs.
- Built **Power BI dashboards (DAX)** for margins, costs, revenue and sales-funnel analysis, cutting recurring reporting preparation time by up to **60%**.

AI Engineer & Junior Consultant (Internship) — *Casablanca, Morocco*
Deloitte Morocco Cyber Centre (DMCC) — *Jun 2024 – Aug 2024*
- Built an end-to-end **phishing email detection** system on nine public datasets (Enron, SpamAssassin, CEAS), with deduplication, under-sampling and engineered URL/urgency features.
- Benchmarked tree ensembles (**83.7% F1**) against a fine-tuned DistilBERT (**98.1% F1**); deployed the winning model via a **Flask REST API** and a Gmail/Outlook Chrome extension.

Software Engineer Intern — *Rabat, Morocco*
Ministry of Health and Social Protection — *Jan 2023 – Jun 2023*
- Built an HR workflow platform with role-based access, digitizing **6 paper forms** for **120 employees**.

Founder & Full-Stack Developer — *Casablanca / Remote*
Rona Labs (Digital Agency) – rona-labs.com — *Jan 2024 – Present*
- Delivered **10+ projects** (websites, e-commerce, AI workflows, CRM/ERP) for Moroccan businesses; launched **Rona Cards**, a live NFC card platform using **AI-powered CV parsing** to build bilingual portfolios.

Projects & Research

LucidLink: AI Wearable for the Visually Impaired (Capstone, Raspberry Pi 5) — *Spring 2025 · Report*
- Voice-controlled wearable combining **face recognition** (InsightFace), **PaddleOCR** + GPT-3.5, **CLIP** object recognition and **SmolVLM2** scene description, with Vosk STT / Piper TTS.
- Built a **distributed edge–server pipeline** (Pi + Flask VLM server); tested with visually impaired users.

ML + IoT Irrigation Optimization (Int. J. of Computing & Digital Systems) — *May 2026 · Paper*
- First author. Trained **30 zone-specific Random Forest regressors** on 40+ years of NASA POWER data as fast surrogates of FAO-56 evapotranspiration (**RMSE 0.010–0.018** on min-max-scaled data, temporal 80/20 split); served via Flask + Flutter app.

PeerFit: Social Sports Events Platform (React Native, Node.js, PostgreSQL) — *Product*
- Launched a geo-based iOS/Android app with **500+ registered users** and **300+ events** (REST API, live chat).

Skills

ML & AI: PyTorch, TensorFlow, Hugging Face, Scikit-learn, OpenCV, NLP, Computer Vision, LLMs.
Data: Python, SQL, Pandas, NumPy, PostgreSQL, ETL pipelines, data modelling, Power BI, DAX, statistics.
Engineering: Flask, FastAPI, REST APIs, Docker, Git, Linux, Node.js.
Languages: French *(Native)*, English *(Fluent)*, Arabic *(Native)*.

Leadership & Interests

Peer Success Tutor & Learning Fellow, AUI: Mentored **160+ students (250+ hours)** in AI, programming.
Community & Sports: Humanitarian work (Rahma AUI, El Ghad); university basketball & American football.