

# Abdelilah Nossair

📍 Morocco    ✉ abdel.noss01@gmail.com    ☎ (+212) 621-707808    in Abdelilah Nossair  
🌐 AbdelilahNossair    🌐 AbdelilahNossair.com

## Profile

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**AI Engineer and Data Analyst** with a strong scientific background (**Summa Cum Laude**, CGPA **3.93/4.0**; **GRE 169V/170Q/5.0**) and international experience at **Baylor University (USA)**. I build **machine learning, computer vision, and intelligent systems** that bridge research and real-world impact—from predictive analytics to assistive technologies.

## Education

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**Al Akhawayn University in Ifrane, Morocco** *Sept 2021 – May 2025*

*BSc in Computer Science (AI specialization) · Minor: Business Administration*

- CGPA **3.93/4.0**; **Summa Cum Laude**
- Honors: President's List (2022, 2024); Dean's List (6 terms)
- Relevant coursework: Artificial Intelligence, Natural Language Processing, Statistical Analysis.

**Baylor University, Waco, Texas (USA)** *Aug 2023 – Dec 2023*

*Exchange Program in Computer Science*

- GPA **3.80/4.0**; Dean's List
- Coursework: Analysis of Algorithms, Probability & Statistics, Languages & Compilers.

## Standardized Tests

- **GRE**: Verbal 169, Quant 170, Analytical Writing 5.0
- **Duolingo English Test**: 140 (CEFR C1)

## Experience

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**Data Analyst (Full-Time)** *Casablanca, Morocco*

*Optorg Group - Tractafric Equipment* *Oct 2025 – Present*

- Architecting a **multi-source operational data model** (ERP/CRM/After-sales/Telematics) and **data-governance framework** for logistics, sales, and maintenance.
- Ensured funnel **data fidelity & CRM hygiene** and customer retention via segmentation, lead scoring, and next-best-action campaigns.
- Contributed to the **automation & digitalization** of the asset lifecycle with MD workflows, APIs, and validation rules—improving traceability and auditability.

**Junior Consultant — AI Engineer (Internship)** *Casablanca, Morocco*

*Deloitte Morocco Cybersecurity Center* *Jun 2024 – Aug 2024*

- **Phishing Email Detection — Outlook/Gmail Integration** ([Repo](#) [🔗](#))
- Designed and deployed an NLP-based classifier (Deep Learning) achieving **98%+** accuracy; enhanced governance and real-time risk mitigation.
- Relevance to **AI for Finance**: intelligent risk management, compliance, and secure decision pipelines.

**Software Engineer (Internship)** *Rabat, Morocco*

*Ministry of Health and Social Protection* *Jan 2023 – Jun 2023*

- Built a scalable **HR management platform** with automated workflows; improved process efficiency by **40%** and user satisfaction by **25%**.
- Explored early applications of AI for administrative optimization in the healthcare sector.

**Business Assistant (Internship)** *Marrakesh, Morocco*

*Afriquia SMDC Regional Office* *Jun 2022 – Aug 2022*

- Conducted financial analysis and supported cross-functional operations informing budget and resource decisions.

## Projects & Research

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### Assistive Device for the Visually Impaired (Raspberry Pi 5)

[Demo](#) 

- Multimodal system with object/obstacle detection, face recognition, OCR, STT/TTS, scene description, and VLM integration (PyTorch, Transformers, OpenCV).
- **Societal impact:** accessibility and autonomy; showcases end-to-end **AI engineering** from edge deployment to user experience.

### Irrigation Optimization for Moroccan Agriculture (IoT + ML)

- Predicted reference evapotranspiration  $ET_0$  across 30 agricultural zones; delivered app-based recommendations (Flutter).
- **Sustainability impact:** lower water costs, improved yield efficiency, and alignment with **Sustainable Energy** objectives.

### PeerFit — Social Sports Events App

[Live site](#) 

- Launched & deployed cross-platform app (React Native/Expo; Node/Express; PostgreSQL); **Android & iOS live release** enabling geo-based event discovery, creation, and participation.
- **AI levers:** engagement analytics (funnels, cohorts), anomaly detection for trust & safety, and retention modeling for community growth.

## Skills

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**Core AI:** Deep Learning, NLP, Computer Vision, Optimization, MLOps, Model Deployment

**Programming:** Python, C++, Java, Dart, JavaScript, SQL (PostgreSQL)

**Frameworks/Tools:** PyTorch, TensorFlow, Scikit-learn, Hugging Face, Transformers, OpenCV, Pandas, NumPy, React.js, Flutter, Flask, Node.js, Express.js, Docker

**Business & Analytics:** Data Visualization, KPI Design, A/B Testing, Experimentation Mindset, Stakeholder Communication

## Leadership & Activities

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**Peer Success Tutor (Part-Time) & Learning Fellow (Part-Time), AUI:** Mentored 120+ students in AI, distributed programming, and Mathematics; improved retention and outcomes.

**Humanitarian Work (Rahma AUI, El Ghad Association):** Organized initiatives for vulnerable groups; logistics and partnerships.

**Sports:** University basketball & American football; personal interests in skiing, mountain climbing, and taekwondo.

## Languages

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**English:** Full professional — **French:** Bilingual — **Arabic:** Native — **Spanish:** Beginner