# Alaeddine Atamna

Fourth Year AI and Data Science Student, The National Higher School of Artificial Intelligence, Algiers, Algeria
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## PROFESSIONAL SUMMARY

AI and Data Science student at ENSIA (graduating 2026) with hands-on experience in natural language processing, machine learning, and software engineering. Developed production-level AI solutions, including transformer-based translation systems and LLM-integrated game agents. Currently an AI Intern at Air Algérie, working on innovative chatbot and digital transformation projects. Recognized as a finalist and award-winner in multiple national AI competitions; passionate about designing reliable, scalable AI for real-world impact.

## RESEARCH INTERESTS

Machine Learning, Deep Learning, NLP, Computer Vision, Reinforcement Learning, Generative Models, Applied AI, Time Series Forecasting, AI for Cybersecurity.

## EDUCATION

**The National Higher School of Artificial Intelligence (ENSIA)**, Algiers
Engineer's Degree in AI and Data Science                                      Sep 2021 – Sep 2026

## EXPERIENCE

**Air Algérie, DSI**                                                          Algiers, Algeria
*AI Intern Engineer*                                                         Sep 2025 – Present

- AI Intern in the Information Systems Division (DSI), contributing to R&D for AI-powered solutions.
- Key contributor to chatbot initiative and digital transformation projects.

**Sonatrach**                                          Algiers, Boumerdes, Hassi R'mel, Algeria
*Intern – Dataroom and Field Visits*                                         Sep 2024 – Oct 2024

- Participated in Dataroom sessions and site visits to major gas facilities.

**SCN Ngaous: Bits and Bytes Event**                                          Batna, Algeria
*Guest Speaker (C++ fundamentals)*                                           Apr 2023

- Delivered hands-on lecture on C++ for university audience; live coding and Q&A.

## PROJECTS

**Dzeloq: Darija to MSA Translation System**                                  ENSIA, Algiers
*NLP Developer*                                                             Oct 2024 – Jan 2025

- Built transformer-based system for dialect-to-MSA translation; curated 149k+ sentence pairs.
- Fine-tuned NLLB-200, M2M100; surpassed GPT-3.5 and Gemma2 benchmarks.

**LLM-Assisted Game AI for Social Deduction Games**                           ENSIA, Algiers
*RL Developer*                                                              Jan 2025 – Jun 2025

- Developed RL-based NPCs with DQN and local LLM for social deduction scenarios.
- Reached 100% clue and 86% voting accuracy in simulations.

**Dawini – Smart Medication App**                                             ENSIA, Algiers
*Mobile Developer*                                                          Oct 2023 – Jan 2024

- Co-developed Flutter app for medication adherence with offline support and user-friendly features.

**Hospital Care Units Monitoring System**                                     ENSIA, Algiers
*Team Leader – DSA Course Project*                                           Sep 2022 – Jan 2023

- Developed ICU/patient monitoring platform in C++ with advanced data structures and real-time access.

*Additional Projects:*

- Khademni (job platform), Rihlat-e (e-tourism site), AI Algorithms Toolbox (Python), Resume Evaluation Matcher (AI HR), Energy Output Prediction (ML), Limoncetto (task app UI/UX)

## RELEVANT COURSES

Deep Learning, NLP, Reinforcement Learning, Computer Vision, Machine Learning, Big Data Analytics, Data Structures & Algorithms, Software Engineering

## AWARDS

**Top 5 Finalist**, Mathurance Hackathon (Feb 2025) – Technical reserve prediction, interpretable ML/DL model.
**Finalist**, Mathix Applied Math & AI Challenge (Apr 2025) – AI for real-world problems.
**2nd Place**, HAICK25 AI Datathon (Jun 2025) – 3-day ML challenge, ESI Algiers.
**Participant**, ADC 4.0 AI Challenge (Apr 2025) – Developed ML solutions for industry.

## WORKSHOPS & CERTIFICATES

3D Printing Certificate, ENSIA (Mar 2022) – Hands-on workshop with mentoring by École Polytechnique d'Oran.

## SKILLS

**Programming:** Python, C++, JavaScript, Java     **ML/AI:** Sklearn, TensorFlow, PyTorch, HuggingFace Transformers, RL, Deep Learning, NLP
**Data:** Pandas, NumPy, Matplotlib, Seaborn     **Web/Dev:** HTML/CSS, PHP, MySQL, Streamlit, Git, Jupyter, Colab, Linux
**Soft Skills:** Teamwork, Problem-solving, Technical Writing, Public Speaking

## LANGUAGES

Arabic (native), English (fluent), French (intermediate)

*Open to 2025 internships and entry-level positions in AI Research, NLP, or Machine Learning, available for hybrid or remote work.*