

Elmasri Ahmed

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Location: Adrar, Algeria / Nantes, France (internship)

Research Interests

- Artificial Intelligence, Machine Learning, and Deep Learning
- Mixture of Experts architectures and optimization of large-scale models
- Computer Vision for medical applications (skin cancer detection, healthcare AI)
- Natural Language Processing (transformers, embeddings, positional encoding)
- Edge AI: TinyML, ML/DP on the Edge, efficient deployment on accelerators (TPUs, ESP32, Coral)
- Applied Data Science and Probabilistic/statistical Methods

Education

MSc in Intelligent Systems – University of Adrar, Algeria

Focus: Artificial Intelligence, Machine Learning, Optimization

Thesis: “Application of Mixture of Experts (MOE) for Skin Cancer Detection“

Expected completion: 2025

BSc in information systems – University of Adrar, Algeria

Focus: Algorithms, Software Development, Applied AI

Graduated: 2023

Research Experience

Intern – LS2N Laboratory, Nantes, France (2025)

Explored Tensor Processing Units (TPUs) for AI workloads: computational performance, control flow, and power consumption using Coral development boards and TensorFlow.

Master’s Research Project (2024–2025)

Developed Mixture of Experts models for skin cancer detection. Investigated optimization and efficiency of large neural networks using TensorFlow and PyTorch.

Independent Research (2023–2024)

Studied Natural Language Processing concepts: transformers, embeddings, positional encoding. Prepared educational presentations on LLMs and transformer models.

Professional Experience

Web & Mobile Developer (Freelance) (2021–Present)

Built and deployed responsive e-commerce platforms . Developed a mobile app connecting users with local services using geolocation. Stack: React, Next.js, React Native, Tailwind CSS.

Created Savr, a browser extension to scrape e-commerce sites and compare product prices in real time. Implemented web scraping, NLP-based analysis, and injected UI systems.

Teaching / Administrative Experience

Ministry-Approved Coding Instructor (2025)

Selected by Algerian ministry to provide programming and IT training to youth. Designed and delivered beginner-friendly coding sessions in Python and HTML with interactive projects.

Awards and Grants

- Internship approval at LS2N Laboratory, Nantes, France with stipend (600€/month).
- Selected by Algerian ministry for a national program teaching youth coding (2025).

Conferences and Presentations

- “Introduction to Transformers and Large Language Models” – Multi-Agent Systems course, University of Adrar (2024).
- Master’s research presentation on Mixture of Experts for Skin Cancer Detection, University of Adrar (2025).

Languages and Skills

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

Programming: R,Python, C/C++, JavaScript, TypeScript, MATLAB

Frameworks: TensorFlow, PyTorch, Scikit-learn, React, Next.js, React Native

Edge/AI Tools: Coral EdgeTPU, TinyML, ML/DL on the Edge,LangChain,Ollama

Data Science: Machine Learning, Deep Learning, NLP, Computer Vision, Probabilistic Methods

Other: Git, Docker, Linux