

## SUMMARY

Junior AI Engineer specialized in NLP and Large Language Models (LLMs), with hands-on experience in fine-tuning, evaluation, and prompt engineering. Passionate about generative AI and its real-world applications, I am eager to contribute to innovative projects within a collaborative and technically ambitious team. Actively seeking a full-time position (CDI or CDD) where I can continue to grow, learn from experienced professionals, and bring value through my skills in AI, language modeling, and system integration.

## EXPERIENCE

### LLM Training and Fine-Tuning Intern – Multi-Agent Systems

Université Côte d'Azur – I3S Laboratory

April 2025 - Present, Sophia Antipolis, France

- Conducted a literature review on LLM training and fine-tuning techniques, with a focus on adapting language models to educational content.
- Prepared data for model training, including cleaning, structuring, and preprocessing of real-world educational corpora.
- Implemented fine-tuning strategies and evaluated the generated text outputs based on pedagogical coherence and content relevance.
- Explored the integration of symbolic knowledge into LLMs through multi-agent systems (MAS) to improve reasoning capabilities.
- Authored a technical internship thesis on the applicability of LLMs to AI-assisted learning and educational content generation.

### Embedded Systems Engineering Intern

CRIStal

April 2024 - September 2024, Lille

- Conducted a literature review on LLM training and fine-tuning techniques, with a focus on adapting language models to educational content.
- Prepared data for model training, including cleaning, structuring, and preprocessing of real-world educational corpora.
- Implemented fine-tuning strategies and evaluated the generated text outputs based on pedagogical coherence and content relevance.
- Explored the integration of symbolic knowledge into LLMs through multi-agent systems (MAS) to improve reasoning capabilities.
- Authored a technical internship thesis on the applicability of LLMs to AI-assisted learning and educational content generation.

### Web & Application Development Intern

Algeria Telecom

October 2023 - April 2023, Annaba

- Participated in the design and development of a full-stack, responsive web application using React (front end) and Node.js/Express (back end) to support internal service request workflows.
- Collaborated with a small development team and the product owner to gather requirements, translate user needs into technical specifications, and drive implementation of high-priority features.
- Assisted in improving performance by refactoring several components and optimizing API calls, enhancing user experience with faster page loading.
- Contributed to technical documentation (setup instructions, feature descriptions, and API usage), and supported knowledge transfer to the IT support team.

## EDUCATION

### Master's in Artificial Intelligence Management

École Centrale de Lille • France • Septembre 2023 à octobre 2025

### Bachelor's in computer System Engineering

Chadli ben Djedid, El Taref • Algiers, AL, Algeria • Septembre 2020 à juin 2023

## CERTIFICATIONS

### TensorFlow by Google Specialist

Udemy • Décembre 2024

## SKILLS

LLM & NLP: Tokenizers, Transformers, PEFT, RLHF, GPT, BERT, T5, Mistral, Mixtral, Fine-tuning, Prompt Engineering, LangChain, Hugging Face, LoRA

ML/DL: Scikit-learn, PyTorch, TensorFlow, CNN, RNN, MLP, XAI, Classification, Régression

Programming Languages: Python / MicroPython – maîtrise avancée, C/C++, JavaScript - niveau intermédiaire, SQL - manipulation de données Tools &

Environnements: Unity, Git, Power BI, Microsoft Office, SysML, UML

Ai Paradigms and Methods: Systèmes Multi-Agents (SMA), Raisonnement symbolique, Méthodes hybrides (symbolique + connexionniste)

## Languages

French: C1

Kabyle: Native

English: C1

Arabic: Native