Amine Ali DJOUAB - Junior AI Engineer (LLM & NLP)

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Professional 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**
• Validated and optimized C/C++ firmware for a multi-channel analog acquisition board.
• Conducted tests to verify signal synchronization and bandwidth stability.
• Implemented autonomous data acquisition routines for standalone operation.

Web & Application Development Intern
Algeria Telecom   **October 2023 - April 2024，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 • September 2023 - October 2025

Bachelor's in Computer System Engineering
Chadli ben Djedid, El Taref • Algiers, AL, Algeria • September 2020 - June 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, Regression

Programming Languages: Python / MicroPython – advanced proficiency, C/C++, JavaScript – intermediate level, SQL – data handling

Tools & Environments: Unity, Git, Power BI, Microsoft Office, SysML, UML

Ai Paradigms and Methods: Multi-Agent Systems (MAS), Symbolic Reasoning, Hybrid Methods (Symbolic + Connectionist)

Languages

Arab - Native | Kabyle - Native

French – fluent (C1) | English – fluent (C1)