

Tran Minh Duong

AI ENGINEER INTERN

📍 Hanoi, Vietnam 📩 minhduongqo@gmail.com ☎ 0961 264 447 🌐 tmdeptrai.vercel.app
LinkedIn: tran-minh-duong GitHub: tmdeptrai

About Me

I design, train, and deploy ML systems with a focus on reliability, monitoring, and real-world constraints. Experienced in RAG pipelines, LLM fine-tuning, model evaluation, containerized inference and cloud deployment.

Looking for AI Engineering / MLOps roles where I can ship and improve model delivery.

Education

BSc	La Rochelle University , Computer Science	La Rochelle, France
• Selected for International Exchange Program		Sept 2025 – present
BSc	University of Science and Technology of Hanoi , Information and Communication Technology (Double Degree)	Hanoi, Vietnam
• GPA: 18.48/20 (≈ 3.89/4), ranked 1st in double degree cohort		Sept 2023 – July 2025

Experience

ICTLab - USTH , Research Assistant	Hanoi, Vietnam
Contributed to research on context-aware fire detection using Visual Language Models	Mar 2025 – July 2025
• Published the fire context awareness dataset to benchmark multimodal VLMs	
• Evaluated Qwen2.5VL, InternVL3 and Gemma3 by implementing pipelines to compare various metrics and inference latency	
• Fine-tuned VLMs using PEFT/LoRA to boost model accuracy up to 85% - 90%	

Projects

Legal Contract Analyzer ↗	July 2025 – Aug 2025
RAG Chatbot for understanding and extracting key information from legal documents	
• Designed and implemented end-to-end MLOps pipeline with CI/CD and monitoring	
• Uses RAG with semantic search, embeddings + LLMs to retrieve relevant sections	
• Techstack: Github Actions, FastAPI, vLLM, ChromaDB, Docker, Prometheus/Grafana	
Fire Detection System ↗	Mar 2025 – Apr 2025
(Group Project Leader) IoT-based real-time fire detection and alerting system.	
• YOLOv8 trained on 1k+ annotated flame/smoke images (0.85 mAP@0.5 and Precision = 0.95)	
• Integrated Dockerized inference with Telegram alerts for live notifications	
• Techstack: Roboflow, Ultralytics YOLOv8, Docker, OpenCV	

Skills

Programming Languages: Python (proficient), Java, C++, Matlab, Bash

Framework / Libraries: PyTorch, Hugging Face transformers, FastAPI, Langchain

Tools: Git, Docker, CI/CD, Prometheus, Grafana, AWS

Languages: English C1 (IELTS 7.5), French B2 (DELF B2)

Certifications

AWS Certified Solution Architect Associate ↗