



Tran Minh Duong

AI ENGINEER INTERN

📍 Hanoi, Vietnam 📩 tmd.banminhchotuban@gmail.com ☎ 0961 264 447
🔗 tmdeptrai.vercel.app 💬 tran-minh-duong 🌐 tmdeptrai

About Me

I build and deploy production-ready ML systems with an eye for reliability and scalability. I have experience in designing and operating RAG (Retrieval-Augmented Generation) chatbot and document-based retrieval pipelines.

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

Education

BSc	La Rochelle University , Computer Science	La Rochelle, France
	• Student in exchange program	Sept 2025 – present
BSc	University of Science and Technology of Hanoi , Information and Communication Technology (Double Degree)	Hanoi, Vietnam
	• Ranked 1st among Double Degree students • GPA: 18.46/20 in Year 1; 18.50/20 in Year 2	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 accuracy, precision, recall, F1-score 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	
• Complete MLOps project 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
IoT-based real-time fire detection and alerting system	
• YOLOv8 trained on 1k+ annotated flame/smoke images (0.85 mAP0.5 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

ML / DL: PyTorch, Hugging Face transformers, scikit-learn, numpy, matplotlib

Tools / MLOps: Git, Docker, CI/CD, FastAPI, Prometheus, Grafana

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