

Tran Minh Duong

AI ENGINEER INTERN

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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

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| 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 ($\approx 3.89/4$), ranked 1st in double degree cohort | Sept 2023 – July 2025 |

Experience

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| ICTLab - USTH , Research Assistant | Hanoi, Vietnam |
| Contributed to research on context-aware fire detection using Visual Language Models | Mar 2025 – July 2025 |
| <ul style="list-style-type: none">Published the fire context awareness dataset to benchmark multimodal VLMsEvaluated Qwen2.5VL, InternVL3 and Gemma3 by implementing pipelines to compare various metrics and inference latencyFine-tuned VLMs using PEFT/LoRA to boost model accuracy up to 85% - 90% | |

Projects

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| Legal Contract Analyzer | July 2025 – Aug 2025 |
| RAG Chatbot for understanding and extracting key information from legal documents | |
| <ul style="list-style-type: none">Designed and implemented end-to-end MLOps pipeline with CI/CD and monitoringUses RAG with semantic search, embeddings + LLMs to retrieve relevant sectionsTechstack: 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. | |
| <ul style="list-style-type: none">YOLOv8 trained on 1k+ annotated flame/smoke images (0.85 mAP0.5 and Precision = 0.95)Integrated Dockerized inference with Telegram alerts for live notificationsTechstack: 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 (DELFI B2)

Certifications

AWS Certified Solution Architect Associate