Tran Minh Duong

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About Me

Undergraduate student at La Rochelle University, passionate about full-stack data science, computer vision, and natural language processing.

Looking for AI Engineering jobs, specialized in developing RAG Chatbot, MLOps, LLMOps, Model-As-a-Service.

Education

BSc   **La Rochelle University**, Computer Science   La Rochelle, France
Sept 2025 – present
- Working on AI Agents project, RAG technology

BSc   **University of Science and Technology of Hanoi**, Information and Communication Technology (Double Degree)   Hanoi, Vietnam
Sept 2023 – present
- Ranked 1st among Double Degree students
- GPA: 18.46/20 in Year 1; 18.50/20 in Year 2

Experience

ICTLab - USTH, Research Assistant   Hanoi, Vietnam
Mar 2025 – July 2025
- Collected and built a fire context awareness dataset ⧉ to survey different models
- Carried out experimentations on Visual Language Models such as Qwen2.5VL, InternVL3, Gemma3, .. and record metrics
- Finetuned Qwen2.5VL and InternVL3 via PEFT and LoRA injection

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, Supabase, ChromaDB, Docker, Prometheus/Grafana

Fire Detection System ⧉   Mar 2025 – Apr 2025

IoT-based real-time fire detection and alerting system with camera input
- YOLOv8 model trained on 1k+ annotated flame/smoke images (0.85 mAP0.5 and 0.95 Precision)
- Real-time alerts via Telegram API
- **Techstack**: Roboflow, Ultralytics YOLOv8, Docker, OpenCV

Skills

Programming: Python, Java, C++, Matlab, good understanding of Web Development and DevOps

Tools & Frameworks: PyTorch, Git, Docker, FastAPI, Github Actions, LaTeX

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

Awards

USTH Excellence Scholarship: 100% tuition coverage

Youth Union Certificate of Achievement (VAST): Recognition for contributions to academic community

Certificate of Achievement (USTH Learning Support Club): For contributions in teaching and mentoring

MOOC Certifications: Deep Learning in Python: CNN-based Image Classification

Extracurricular Activities

- USTH Artificial Intelligence Club - Computer Vision Specialist

- USTH Learning Support Club - Math & CS Mentor, taught 300+ students in Machine Learning, Calculus, Linear Algebra

- Founded **PioTech Club**, an active STEM community in Quoc Oai High School.