

Nguyen Thieu Huy

AI Engineer Intern

n.thieuhuy43@gmail.com (+84) 364-814-697 github.com/ThieuHuy43 linkedin.com/in/thieuhuy43

OBJECTIVE

Final-year AI student seeking an AI Engineer Intern role to apply machine learning and deep learning skills in building practical, scalable AI solutions.

PROJECTS

AMAF-Net: Adaptive Multi-modal Alignment Framework *PyTorch, FSCIL*

- Proposed a novel framework for few-shot class-incremental learning in multi-modal settings.
- Introduced adaptive alignment and prototype refinement modules to mitigate catastrophic forgetting.
- Achieved **+4.2% average accuracy on TFS-Fruit** and **+3.1% on MiniImageNet** compared to state-of-the-art methods.

Hybrid & BERT4Rec E-commerce Recommendation System *PyTorch, Transformer, Rec. Systems*

- Developed a **hybrid** e-commerce recommendation system combining collaborative filtering, content-based filtering, and BERT4Rec.
- Trained and evaluated models on large-scale user–item interaction data with over **100K** users and **1M** interactions.
- Improved Hit@10 by **12%** and Recall@10 by **9%** compared to traditional collaborative filtering baselines.

Fire and Smoke Detection (RGB-Thermal pair images) *PyTorch, OpenCV, YOLO*

- Developed a multi-modal object detection system using visible and thermal images.
- Designed a dual-backbone **mid-fusion architecture** for robust fire and smoke detection.
- Achieved mAP@0.5 of **78%** on a custom RGBT dataset.

EDUCATION

Thuyloi University <i>B.S. in Artificial Intelligence & Data Science</i>	Hanoi, Vietnam Aug 2022 – May 2026
<ul style="list-style-type: none">◦ GPA: 3.31/4.0◦ Relevant Coursework: Machine Learning, Deep Learning and Applications, Statistics	

HONORS & AWARDS

Best Paper Award — ICAI 2025: For the paper “AMAF-Net: Training-Free Multi-Modal Alignment for Fine-Grained Counterfeit Fruit Detection”.

Academic Excellence Scholarship: Two consecutive semesters.

Research Merit Distinction: AI research and competitions in ML and CV.

CERTIFICATIONS

DeepLearning.AI Deep Learning Specialization: Neural networks, CNNs, RNNs, sequence models, optimization.
Samsung Innovation Campus - AI Course: Completed with Very Good grade
English Proficiency: CEFR (B2 – good at Speaking), Vietnamese (Native)

SKILLS

Languages: Python, C++, C

Frameworks: PyTorch, Sklearn

Computer Vision: YOLO, CLIP, ViT, OpenCV

NLP: Transformers, BERT, LLaMA, QLoRA

MLOps: Docker, Git, Linux, MLflow

Tools: Jupyter, VSCode, Pycharm