

# Nguyen Thieu Huy

AI Engineer Intern

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## 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

B.S. in Artificial Intelligence & Data Science

Hanoi, Vietnam

Aug 2022 – May 2026

◦ **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