

# Triệu Huy Mạnh

Information  
Technology Student |  
NLP & AI Enthusiast



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📍 Tân Thịnh, Thái Nguyên

## 📄 PROFILE

Information Technology student specializing in Natural Language Processing (NLP) and Artificial Intelligence (AI). Skilled in working with large language models (LLMs) and machine learning, with strong proficiency in Python, PyTorch, and the Hugging Face ecosystem. Experienced in projects on text classification, entity extraction, and question answering. Seeking opportunities in a professional environment to apply knowledge and further develop expertise in AI and NLP.

## 🔑 INTERESTS

- Artificial Intelligence (AI) and Machine Learning (ML)
- Natural Language Processing (NLP) and Computer Vision (CV)
- Applied AI in education, legal, and real-world domains
- Scientific research and academic writing
- Innovation, entrepreneurship, and intelligent systems design

## 🧠 SKILLS

- Strong foundation in programming (Python, C++) and algorithmic thinking
- Experience collaborating in research and applied projects
- Knowledge of modern AI models in Natural Language Processing (NLP) and Computer Vision (CV)
- Proficient in academic writing, reporting, and communication
- Independent learning ability with strong analytical and problem-solving skills

## 👛 PROFESSIONAL EXPERIENCE

### School of Information and Communication Technology – Thai Nguyen University

2024 – Present

- Built a strong foundation in **Computer Vision** through formal training and practical research activities.
- Conducted an AI project on **road defect classification** (potholes, cracks, and surface damages) from real-world images to support **intelligent transportation systems**.
- Team member in the **Innovation & Startup Competition** with the project: “Developing an Intelligent Road Defect Detection System using Deep Learning and Raspberry Pi.”
- Member of the **AI in Education research group**; participated in the **AI4Education Competition** with the project: “Building a Multimodal AI Model for Generating Interactive Lecture Videos from Teaching Data.”
- **Co-authored and presented research papers at national conferences; contributed to publications submitted to Scopus-indexed journals** in the fields of Computer Vision and AI.
- Actively participated in **innovation and startup competitions**, developing AI-driven solutions for practical applications in transportation and education.

### Achievements / Awards

- Presented the paper “Attention-Enhanced YOLOv12 Framework for Intelligent Road Surface Defect Detection” at **The 2nd ACIR+ Workshop of Research and Innovation for Students (AWRIS 2025)**, under the theme “Towards Innovative Technology for Paving the Sustainable Future in ASEAN”.
- “Performance Evaluation of the U-Net Deep Learning Model for Road Surface Defect Segmentation: An Applied Computer Vision Study” (ongoing research).
- Winner / Awarded in the PSD 2WEB Challenge
- Currently working on several other research papers in **AI and Computer Vision**.