Huy Hoang

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⌂ l1aF-2027

Introduction

I am a third-year Artificial Intelligence student at VNU-HCM University of Information Technology with a strong passion for Data Science and Machine Learning. I have hands-on experience in Multimodal Learning, Deep Learning, and NLP through academic projects and competitions. I enjoy building real-world AI applications and continually expanding my technical skills through open-source work and research.

Education

BS   **VNU-HCM University of Information Technology**, Artificial Intelligence   Sept 2022 – now
- **GPA:** 9.06/10.0 (Academic Transcript ↗)
- **Coursework:** Machine Learning with Python, Advanced Artificial Intelligence, Deep Learning and Applications

Certifications

NVIDIA Workshop   Applications of AI for Anomaly Detection ↗
- Applied both supervised and unsupervised learning methods (XGBoost, autoencoders, and GANs) to identify network intrusions and anomalies in large datasets.

Projects

Multimodal Sacarsm Detection on Vietnamese Social Media Texts   github.com/l1aF-2027/UIT-Data-Science-Challenge-2024 ↗
- DSC-UIT 2024 Competition – **2nd Prize Winner**
- Built a multimodal system combining caption, image, and OCR-extracted text for sarcasm detection. Developed an interactive web demo using Streamlit, simulating auto-classification of community posts.
- Tools Used: Python, Keras, OCR, Transformers, Streamlit

SpecAugment with NeMo on Vietnamese and English   github.com/l1aF-2027/SpecAugment-with-NeMo-on-Vietnamese-and-English ↗
- Applied SpecAugment (time warping, frequency masking, time masking) to improve speech recognition performance when fine-tuning QuartzNet and Hybrid RNN-T models on Vietnamese and English datasets using NVIDIA NeMo.
- Tools Used: Python, PyTorch, NVIDIA NeMo

UIT Admissions Chatbot   github.com/l1aF-2027/UIT-Admissions-Chatbot ↗
- Built a web-based chatbot using NLP to answer UIT admissions FAQs, combining rule-based and intent-based models.
- Tools Used: Python, FastAPI, React, Next.js, TailwindCSS, Transformers

Technologies

Languages: Python, TypeScript, SQL, CSS, HTML

Frameworks & Tools: PyTorch, Keras, FastAPI, Next.js, Tailwind CSS