

HOANG HUY VO

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EDUCATION

HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY - VNU

Bachelor of Computer Science (Honors Program). GPA: 3.5/4.0

[Scholarship for Enterprise Connection at Vietnam National University, Ho Chi Minh City](#)

Relevant Coursework: Data Structure and Algorithm, Machine Learning, Data Mining.

Ho Chi Minh City, Vietnam

2022 - 2026

Feb 2025

AWARDS

[Student of 5 merits](#)

Dec 2023

PROJECTS

Sentiment Analysis

March 2025

- **Description**

- Developed a production-ready Vietnamese sentiment analysis system using **TextCNN** architecture (88.97% test accuracy), and further improved performance by fine-tuning **PhoBERT**.
- Designed a custom preprocessing pipeline with language detection and teencode normalization
- Implemented **MLOps** workflow using **Apache Airflow** for orchestration and MLflow for experiment tracking
- Containerized the backend using **Docker**, served with **FastAPI**, and created a **Streamlit** UI for interaction
- Created a feedback loop system and automatic retraining mechanism to maintain model performance over time

- **Quick Demo:** [Demo](#)

- **Github Repository:** <https://github.com/edithh81/SentimentAnalysis>

- **Technology:** Pytorch, TorchText, pyvi, Streamlit, FastAPI, Airflow, Mlflow, Docker.

Handwritten Recognition

April 2025

- **Description**

- Implemented a Vision Transformer (ViT) from scratch using **PyTorch** for **MNIST** digit classification
- Achieved 98% test accuracy on handwritten digit recognition
- Built an interactive **Streamlit** web application with real-time digit drawing and image upload for inference

- **Github Repository:** <https://github.com/edithh81/ViTClassification>

- **Technology:** Pytorch, Streamlit.

EXPERIENCE

HPC Lab, Ho Chi Minh University of Technology (HCMUT)

Sep 2024 – Present

Research Assistant – Graph-based Recommendation Systems

- Working under Dr. Thoai Nam on telecom package recommendations using **graph-based learning**.
- Collaborating with a **leading mobile provider** on real customer data. Applied **GNNs**, **Knowledge Graphs**, and **collaborative filtering** for personalized recommendations.

SKILLS

- **Language:**

- [TOEIC LR: 780/990](#).

- **Technical Skills:**

- **Programming languages:** Python, C/C++, R, JavaScript.
- **AI & ML:** PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, HuggingFace, transformers, LangChain.
- **MLOps:** Airflow, MLflow, Docker.
- **Web & Backend:** FastAPI, Streamlit.
- **Database:** MySQL, PostgreSQL, MongoDB.