VO HOANG MINH TRI

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Education

Industrial University of HCM City   October 2020 – July 2025

Data Science   *Ho Chi Minh, Viet Nam*

- GPA: 3.22/4.0

Relevant Coursework

- Data Science
- Data Structures and Algorithms
- Object Oriented Programming
- Machine Learning
- Computer Vision
- Natural language processing

Projects

Robust Aerial Target Tracking (Top 2 ZALO AI 2025) | *Python, OpenCV, PyTorch, YoloE*   December 2025

- Remove background and preprocessing data for model YOLOE input.
- Training YOLOE with yoloe-v8m backbone, freeze the spine, only train the head (and pos-embed)
- Building Re-promting and Constant-Velocity Fill Method allows to predict outcomes with high accuracy and stability.
- Build Docker and deploy the full model to Drone for the final round.

Breast cancer detection based on mammography | *Python*   January 2025

- Use YOLOX drop ROI image from mammography data to building data.
- Implement KAN and Convnext to create model ConvnextKAN.
- Training on multiple mammography datasets to compare the performance of ConvnextKAN.

Person Re-identification | *Python*   May 2025

- Use model Yolov8-pose to detection person.
- Using Yolov8 model to tracking from person detected
- Use OSNet for Person Re-ID: extracts multi-scale features, boosts cross-camera accuracy with low computational cost.

Image Watermark Remover | *Python,Pytorch,OpenCV,Image Processing*   May 2024

- Process data by resize and cut each image into smaller images to use as data for the training process.
- Utilize a Pix2Pix architecture using the Pytorch framework for model training.

Evaluation English Speaking | *Python*   September 2024

- Use Whisper-tiny model to convert audio input.
- Build necessary measures for assessing input pronunciation.
- Build API using Flask, JWT manager and swagger.

Google Quest Q&A Labeling | *Python,Pytorch*   October 2023

- Process data by removing URLs and HTML.Replace special characters with spaces between them. Standardize punctuation and capitalization.
- Use Transformer models for training.
- Employ ensemble techniques to improve results.

Banner Generative (ZALO AI 2023) | *Python,Pytorch*   December 2023

- Use the vinai-translate-vi2en model to convert Vietnamese text to English.
- Use the Stable Diffusion model for model training.
- Use an LLM model to extract keywords from a prompt sentence to enhance model learning.

Technical Skills

Languages: C, C++, Java, JavaScript, Python, SQL.
Developer Tools: VS Code, Google Colab, Pycharm, Cursor.
Technologies/Frameworks: Linux, GitHub, Tensorflow, Pytorch, Selenium, BeautifulSoup, Docker, Conda.

Honors And Awards

- Certificate: Zalo AI Challenge 2025 — Runner-Up

- Certificate: **VSTEP B1**

- Certificate Python at Data Innovation Lab IUH.