

Truong Duc Tai
AI/Algorithm Engineer

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Education

Industrial University of Ho Chi Minh City, Vietnam
Bachelor's Degree in **Data Science**

09/2021 – Present
GPA: 3.48/4.0
TOEIC: 715

Projects

Fine-tuning Vision-Language Model (VLM)
NLP Final Project, Scored 8/10
• Fine-tuned Vintern-1B-v2 on Viet-chart-VQA dataset using LoRA with PyTorch, peft, and datasets; processed 110k chart images and text queries.
• Preprocessed image-text pairs with PIL, tokenized text, and optimized training with DeepSpeed; achieved 0.91 BERTScore F1 on test set, improving baseline by 5.8%.

Multi Large Language Model Code Solver
Kaggle Competition, Ranked 21/149
• Standardized prompts, queried DeepSeek-V3, Gemini 2.0 Flash, GPT-4o, Llama 3 via API, validated outputs (A, B, C, D), used majority/confidence-weighted voting.
• Achieved DeepSeek-V3 75%, Gemini 2.0 Flash 72%, GPT-4o 70%, Llama 3 62%, ensemble 71%.

Mammography Breast Cancer Detection
Kaggle Project
• Converted DICOM to PNG, filtered view/laterality, augmented data (flips, rotations, brightness), fine-tuned EfficientNet-B0, Resnet50, HR-Net, Swin-Transformer.

Open Set Recognition
Young Scientists Conference 2024
• Utilized beta-VAE with Wide ResNet for latent space encoding; applied Extreme Value Theory for open set detection via probability thresholds.
• Achieved 99.7% closed set accuracy, 94.0% open set accuracy.

Skills

Machine Learning/AI Frameworks: TensorFlow, PyTorch, Transformers, Keras, Scikit-learn, OpenCV
Data Science: Pandas, NumPy, Matplotlib, Seaborn, Plotly
Version Control: Git, GitHub
Databases: MySQL, MongoDB, SparkSQL
APIs & Web Services: Django Rest Framework, FastAPI
Crawl Data: Selenium, BeautifulSoup, Requests
Laboratories: Programming Lab, Data Innovation Lab

Awards

LOTTE Scholarship
Academic excellence award by LOTTE Foundation.

Top 500 – Meta Hacker Cup
Ranked among top 22492 participants.

Top 12 Vietnam – ICPC Asia Hanoi Regional Contest
Ranked among top 12 teams in Vietnam.

Third Prize – ICPC Southern Vietnam Regional Contest
Secured third place in regional programming contest.

Second Prize – Vietnam National Collegiate Programming Contest
National Round – Specialized Track.

Consolation Prize – Vietnam National Collegiate Programming Contest
National Round – Non-specialized Track.

Top 5% – Scholarship for Encouraging Study
Awarded for outstanding academic performance.

2024
[Scholarship](#)

2024
[Certificate](#)

2024
[Certificate](#)

2023
[Certificate](#)

2022
[Certificate](#)

2021
[Certificate](#)

2 semesters