

Truong Duc Tai
AI/Algorithm Engineer, Data Scientist

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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

Multi Large Language Model Code Solver

03/2025 – 04/2025

Kaggle Competition

[\[Github\]](#)

- 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%; balanced answers.

Mammography Breast Cancer Detection

01/2025 – 03/2025

Kaggle Competition

[\[Github\]](#)

- Converted DICOM to PNG, filtered view/laterality, augmented data (flips, rotations, brightness), fine-tuned EfficientNet-B0, Resnet50, HR-Net, Swin-Transformer.

Open Set Recognition with Probabilistic Encoding

03/2024 – 09/2024

Young Scientists Conference 2024

[\[Certificate\]](#) [\[Kaggle\]](#)

- 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.

Restoring Vietnamese Accents with Deep Learning

04/2024 – 06/2024

Machine Learning Course Final Project

[\[Kaggle\]](#)

- Tokenized, mapped to IDs, embedded data; trained LSTM and Transformer on accented/unaccented Vietnamese pairs.
- Transformer achieved 93.32% accuracy, LSTM 90.11%; Transformer had lower loss.

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

2024

Academic excellence award by LOTTE Foundation.

[Scholarship](#)

Top 500 – Meta Hacker Cup

2024

Ranked among top 22494 participants.

[Certificate](#)

Top 12 Vietnam – ICPC Asia Hanoi Regional Contest

2024

Ranked among top 12 teams in Vietnam.

[Certificate](#)

Third Prize – ICPC Southern Vietnam Regional Contest

2023

Secured third place in regional programming contest.

[Certificate](#)

Second Prize – Vietnam National Collegiate Programming Contest

2022

National Round – Specialized Track.

[Certificate](#)

Consolation Prize – Vietnam National Collegiate Programming Contest

2021

National Round – Non-specialized Track.

[Certificate](#)

Top 5% – Scholarship for Encouraging Study

2 semesters

Awarded for outstanding academic performance.