

Truong Duc Tai
AI/Algorithm Intern

📍 Ward 15, Go Vap, Ho Chi Minh City | 📞 0327341107 | ✉️ taitruong256@gmail.com | 🌐 github.com/taitruong256

Education

Industrial University of Ho Chi Minh City, Vietnam 09/2021 – Present
Bachelor's Degree in **Data Science** 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 22492 participants. [Certificate](#)

Top 12 Vietnam – ICPC Asia Hanoi Regional Contest 2024
Ranked among 124 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.