

Truong Duc Tai
AI/Algorithm Engineer, Data Scientist

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

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
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Projects

Multi Large Language Model Code Solver Kaggle Competition <ul style="list-style-type: none">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.	03/2025 – 04/2025 [Github]
Mammography Breast Cancer Detection Kaggle Competition <ul style="list-style-type: none">Converted DICOM to PNG, filtered view/laterality, augmented data (flips, rotations, brightness), fine-tuned EfficientNet-B0, Resnet50, HR-Net, Swin-Transformer.	01/2025 – 03/2025 [Github]
Open Set Recognition with Probabilistic Encoding Young Scientists Conference 2024 <ul style="list-style-type: none">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.	03/2024 – 09/2024 [Certificate] [Kaggle]
Restoring Vietnamese Accents with Deep Learning Machine Learning Course Final Project <ul style="list-style-type: none">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.	04/2024 – 06/2024 [Kaggle]

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.	2024 Scholarship
Top 500 – Meta Hacker Cup Ranked among top 500 participants.	2024 Certificate
Top 12 Vietnam – ICPC Asia Hanoi Regional Contest Ranked among top 12 teams in Vietnam.	2024 Certificate
Third Prize – ICPC Southern Vietnam Regional Contest Secured third place in regional programming contest.	2023 Certificate
Second Prize – Vietnam National Collegiate Programming Contest National Round – Specialized Track.	2022 Certificate
Consolation Prize – Vietnam National Collegiate Programming Contest National Round – Non-specialized Track.	2021 Certificate
Top 5% – Scholarship for Encouraging Study Awarded for outstanding academic performance.	2 semesters