Thao Nguyen Tran Thi

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Education

Ton Duc Thang University — Ho Chi Minh City, Vietnam
Bachelor of Science, Computer Science. GPA: 7.72/10 (Current) — Expected Graduation: October 2026
Relevant Coursework: Data Structures, Introduction to Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Massive Data Processing.

Experience

University Project — Ton Duc Thang University — Ho Chi Minh City, Vietnam
Last-Mile Delivery Optimization Model (VRPTW, Tabu Search) — September 2025 – December 2025
- Developed a Vehicle Routing Problem with Time Windows (VRPTW) model using Tabu Search heuristic.
- Implemented Python modules for neighborhood generation, cost evaluation, and aspiration criteria.
- Analyzed trade-offs between travel distance, time windows, and fleet utilization using real-world dataset (Delivering Data – Zenodo).
- Visualized optimized delivery routes and algorithm performance metrics with Matplotlib and Pandas.

Deep Learning Project — Ton Duc Thang University — Ho Chi Minh City, Vietnam
Visual Question Recognition Model (CNN and Transformer Decoder) — March 2025 – March 2025
- Built a neural architecture combining CNN for image feature extraction and Transformer Decoder for text generation.
- Trained on annotated visual-question datasets and achieved 89% BLEU score.
- Experimented with attention visualization and beam search for improved sequence generation.

Deep Learning Project — Ton Duc Thang University — Ho Chi Minh City, Vietnam
Optical Character Recognition using CNN and Transformer Models — April 2025 – May 2025
- Collected and preprocessed image datasets containing various fonts and handwriting styles.
- Designed and trained a Convolutional Neural Network (CNN) combined with a Transformer decoder for sequence prediction.
- Improved text extraction accuracy by applying data augmentation and fine-tuning learning rate schedules.

Leadership & Activities

Ton Duc Thang University — Ho Chi Minh City, Vietnam
Team Leader — Last-Mile Delivery Optimization Project — September 2025 – December 2025
- Led a 3-member team to design and implement a VRPTW optimization model using Tabu Search.
- Coordinated weekly progress tracking and report submission.

Ton Duc Thang University — Ho Chi Minh City, Vietnam
Team Leader — Massive Data Processing Course Project — April 2025 – May 2025
- Directed a 4-member team to implement collaborative filtering and PageRank algorithms.
- Oversaw code integration and ensured timely completion of deliverables.

Skills & Interests

Technical: Python, C#, SQL, TensorFlow, PyTorch, Scikit-learn, SQLite, GitHub, Google Colab, Kaggle
Language: Vietnamese (Native), English (Intermediate – can communicate and read technical documents)
Laboratory: Data Preprocessing, Model Training, Evaluation Metrics
Interests: AI research, data visualization, models training, reading tech blogs