

Xuan Hoang Le

Curriculum Vitae

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🎂 Birthday: 1999.11.12
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Summary

Data scientist and AI researcher with a background in Mechatronics Engineering and experience in vision-language models, computer vision, time-series forecasting, and business analytics. Motivated to integrate automation into the real world by building systems that connect research with practical applications. Experienced in developing practical solutions, including facial-recognition attendance systems, electricity-demand forecasting, restaurant traffic prediction, and customer-behavior modeling. Currently pursuing an M.S. in AI and Robotics at Sejong University and working at the Vision Language Intelligence Lab, with research focused on computer-use agents.

Education

- 2024 – 2026 **Master of Science**, *Sejong University*, Seoul, Korea.
Department: Artificial Intelligence and Robotics **Advisor:** Associate Professor Cheol Jeong
Thesis: Confidence-Guided Adaptive Refinement Technique for GUI Grounding **GPA:** 4.3/4.5
- 2017 – 2023 **Bachelor of Engineering**, *Vietnam National University – Ho Chi Minh University of Technology*, Ho Chi Minh City, Vietnam.
Program: Training Program of Excellent Engineers in Vietnam (PFIEV)
Department: Mechatronics Engineering **Advisor:** Ph.D. Pham Cong Bang
Thesis: Analysis and Design of an Automated Chicken Classification System **GPA:** 8.13/10

Professional Experience

- 2024.09 – Present **Research Assistant**, *Vision Language Intelligence Laboratory*, Sejong University, Korea.
Keywords: Vision-Language Models, GUI Grounding, GUI Agents, Paper Writing
Researched training-free methods to improve GUI grounding and proposed confidence-guided adaptive refinement, which leverages spatial signals from attention maps for stopping and cropping. Implemented a VLM-based video filtering module within a CCTV retrieval system, using frame sampling and prompt-based inference to classify videos as CCTV or non-CCTV footage. Developed a vision-based system for data transmission from roadside stations to moving vehicles. Contributed to research activities, data annotation, simulation, and manuscript preparation.
- 2023.04 – 2024.08 **Data Scientist**, *Center of Applied Data Science, FPT Corporation*, Vietnam.
Keywords: Time Series, Big Data, Forecasting, Business Analytics, Customer Modeling
Built monthly electricity-consumption forecasting models for 13 Vietnamese provinces using trend, seasonal, and residual decomposition with linear, statistical, and ARIMA-based methods, achieving MAPE below 6% across all provinces and below 4% in six provinces. Improved a daily customer-traffic forecasting model for 600 restaurants by enhancing preprocessing, feature engineering, and modeling strategies, achieving a 15% relative reduction in WAPE. Analyzed large-scale raw web-log data to develop anonymous customer personas, model user journeys, and predict user touchpoints using Markov sequence analysis. Automated web scraping pipelines to collect and enrich external data from LinkedIn, Google Maps, and Chotot, supporting exploratory analysis and business recommendations.

- 2022.06 – **Data Scientist**, *Data Department, VTCODE Company, Vietnam.*
 2023.03 **Keywords:** Face Recognition, Computer Vision, Data Analysis, Time Series
 Deployed a facial-recognition system in office environment by comparing face embeddings with a registered database, automating camera-based check-in/check-out, achieving 97% accuracy.
 Analyzed multi-source company data and built daily revenue forecasting models for F&B branches.
 Collected and processed data from documents, databases, and online sources for analytics.
- 2021.01 – **Research Intern**, *Control and Automation Laboratory, Faculty of Mechanical Engineering, Ho Chi Minh University of Technology, Vietnam.*
 2022.06 **Keywords:** YOLOv5, CNN, Classification, Deep Learning, Automation
 Designed an automated chicken classification system by collecting farm image data, developing a classification model, and designing mechanical, electrical, and control components for the system.

Research Manuscripts

- In Prep. First author, "A Dataset for Computer-Use Agents." Target venue: AAI 2027.
- Under Review First author, "DART: Density-Aware Adaptive Refinement Technique for GUI Grounding in Computer-Use Agents." Submitted to IEEE Access.
- Under Review Second author, "Training-Free ROI Selection via Semantic Vector Fields for GUI Grounding." Submitted to ECCV 2026.
- Prior Submission First author, "CGAR: Confidence-Guided Adaptive Refinement for GUI Grounding." Previously submitted to CVPR 2026.

Skills

- AI Research Vision–Language Models, GUI Grounding, GUI Agents, Deep Learning, Computer Vision, Object Detection, Face Recognition.
- Data Science Time-Series Forecasting, Revenue Prediction, Business Analytics, Feature Engineering, Web Scraping, Data Cleaning, Data Processing.
- Programming Python, C/C++, MATLAB/Simulink.
- Frameworks PyTorch, scikit-learn, OpenCV, YOLO, FastAPI, Pandas, NumPy, PySpark, Selenium.
- Tools MongoDB, Git, Jupyter Notebook, Google Colab.
- Software MS Office, SolidWorks, AutoCAD, Proteus.
- Soft Skills Analytical thinking, problem-solving, self-motivation, teamwork, initiative, and adaptability.
- Languages Vietnamese: Native; English: Intermediate (New TEPS 350/600); Korean: Basic.
- Certifications Coursera (2022–2023): Machine Learning Specialization, Deep Learning Specialization.
 NVIDIA (2022): Building Video AI Applications at the Edge on Jetson Nano, Getting Started with AI on Jetson Nano.
 freeCodeCamp (2021–2023): Scientific Computing with Python, Data Analysis with Python.
- Interests Continuous learning, machinery, automation, programming, statistics, mathematics, sports, singing, music, and travelling.

References

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