

# THANH LONG LY

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📧 @tlong-ds

in Thanh Long Ly

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## Education

2023 – 2027    📖 **National Economics University** Hanoi, Vietnam.  
Data Science in Economics and Business  
CGPA: 3.51/4.0

## Extracurriculum Activities

- 2023 – 2024    📖 **Collaborator in Communication Department**, Club of Actuary Pioneers, National Economics University.
- Developed high-impact promotional assets to drive attendance and enhance club visibility.
- 2024    📖 **Contestant**, MOS World Championship 2024, National Economics University.
- Competed at the regional level in the Microsoft PowerPoint 365 track.
  - Mastered complex slide master workflows, multimedia integration, and sophisticated animation techniques under competitive constraints.
- 2024 – 2026    📖 **Member of Communication Department**, Union of Faculty of Mathematical Economics, National Economics University.
- Conceptualized and executed visual branding for high-profile charity initiatives and freshman orientation events.
- 2025 – Present    📖 **Research Assistant**, Predictive Models and Machine Learning Research Applications, National Economics University.
- Actively participated in research projects, including data collection, analysis, and model development.
  - Developed and implemented AI applications for businesses and organizations.
  - Engaged and presented multiple technical webinars and workshops to share knowledge and insights with the community.

## Experience

- 2025 – Present    📖 **AI Engineer Intern**, Alpha Data Academy, Hanoi, Vietnam.
- Developed an Agentic RAG System for Rang Dong, a company in the lighting industry.
  - Participated in the design of data ingestion pipeline for the system.
  - Optimized the response to be natural and human-like.

# Projects

- 2025 – Present

**Rang Dong Sales Agent**, Rang Dong, Hanoi.

- Engineered a conversational agent that replicates the e-commerce web navigation experience, guiding customers through product discovery and purchase decision funnels via natural language.
  - Enhanced user engagement by providing an intuitive alternative to traditional site navigation.
- December, 2025

**Gigabyte Sales Agent**, Hackathon “Master AI, Master Careers”, Ho Chi Minh City.

- Addressed the high-friction nature of purchasing laptops and monitors by automating answers to technical queries, streamlining the pre-sales support process.
  - Awarded 1st place in the hackathon.
- November, 2025

**Hanoi Weather Forecast**, Group Project, National Economics University, Hanoi.

- Developed a weather forecasting model for Hanoi using machine learning frameworks like Scikit-learn, ClearML and Catboost.
  - Designed a dashboard to visualize the weather data and the model performance.
- June, 2025

**The Learning House**, Group Project, National Economics University, Hanoi.

- Fully functional educational platform with rich AI features for learners.
  - Created a dashboard to visualize the learners’ progress.
  - Utilized Amazon S3 for storing medias.

# Research Publications

## Conference Proceedings

- 1

T. P. Trinh, A. T. Tran, T. L. Ly, A. K. Phan, Q. A. Bui, and N. H. Dang, “Agentic B2B2C AI - how AI has been transforming B2B2C e-commerce in vietnam,” 2026.
- 2

M. D. Phung, B. D. T. Vu, T. L. Ly, T. H. T. Duong, and K. L. Pham, “The regulatory role of provincial governments in the impact of labor shift on agricultural production efficiency in Vietnam,” in *Proceedings of the National Scientific Conference: Vietnam’s Economy in 2024 and Prospects for 2025*, Promoting Economic Institutional Reform in the New Context, Hanoi, Vietnam: National Economics University Publishing House, 2025, pp. 488–501.

# Skills

- Languages

Highly Proficient English, Native Vietnamese, Basic Chinese.
- Coding

Python,  $\LaTeX$ , Swift, C++, SQL, JavaScript.
- Databases

MySQL, PostgreSQL, MongoDB, Supabase, Qdrant.
- Cloud, DevOps

AWS, Docker, Kubernetes, Git, GitHub, Jenkins, HuggingFace.
- AI/ML Frameworks

PyTorch, TensorFlow, MLFlow, Scikit-learn, HuggingFace Transformers, LangChain, LangGraph.