Dinh Tan Loc

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About me

As an early student in Information Technology at a top economics university, I've built a solid foundation in software development to bring value to end users. Passionate about technology—especially AI—I actively learn online, join research, and take on real-world projects to grow my skills. Explore more about my journey below.

Industry Experience

AI Engineer Asssociate at Hitachi Digital Services **June 2025 – now**

AI Engineer, Research, LLMops *Full-time*

With a mission to deliver modern AI-powered technology solutions, Hitachi Digital Services is a global company specializing in outsourcing and consulting services. Leveraging Agile methodologies, the company provides tailored products and solutions that help businesses address their evolving needs, with particular strength in natural language processing applications.

- Designed and implemented agent-based system architectures leveraging MCP and A2A technologies, ensuring scalability, modularity, and seamless integration across components.
- Performed fine-tuning of large language models using advanced techniques such as LoRA and Prompt Tuning, optimizing accuracy and domain adaptation for specific business use cases.
- Deployed and maintained solutions on AWS cloud services, integrating monitoring and tracking tools to continuously evaluate, troubleshoot, and enhance overall system performance.

AI Engineer at Kyanon Digital **January 2025 – June 2025**

Technical, Applied AI, LLMOps *Intern*

With the mission of providing and building modern AI-powered technological solutions, Kyanon Digital is an international company specializing in delivering products and services developed through Agile processes, addressing the needs of businesses, especially in natural language processing applications.

- Research, survey, and report on a series of the latest papers about RAG and LLM
- Develop ideas and plan product implementation following the SCRUM and AGILE processes
- Use Python, FastAPI, and React.js with the Langchain Framework to build the MVP of the product

Data Science at Saigon.A.I **Aug 2024 – Dec 2024**

Technical, Data Science, Analyst *Intern*

With a mission to help our customers design, build and support their data and A.I. products and offerings. Saigon.A.I offers data science, automation, model design and ops solutions to help you accelerate.

- Use Python to transform and preprocess company data with nine millions observations
- Build a report by visualization with Tableau
- Prepare documents and present a professional workshop about modern Data knowledge

Skills

Main languages: Python, SQL, C#, C++
Backend: Django, FastAPI, .NET
Databases: SQL Server, PostgreSQL, MongoDB, Qdrant, Neo4j
LLM frameworks: Langchain, Langgraph, Langfuse, Ollama, Unsloth, PEFT
ML frameworks: Pytorch, Sklearn, MLflow, CVAT, Label Studio
Cloud services: AWS, Azure
Automation Tools: n8n
Viz tools: PowerBI, Tableau, Looker Studio

Education

University of Economics Ho Chi Minh City (UEH) **October 2022 - March 2026**
Bachelor in Information and Technology *CGPA: 3.81/4*

Ho Chi Minh University of Science (HCMUS) **August 2023 - March 2024**
Diploma of Data Analytics Program *CGPA: 3.4/4*

Advanced AIO 2024, AIOVN **October 2024 - Present**
Diploma in Data Science and Artificial Intelligence Program

Academic Experience

Research Assistant at UEH University **Dec 2023 – May 2025**
AI Researcher, Finance ML, LLM *Full-time*

- Researching **explainable AI (XAI) for financial stock market data**, focusing on interpretability in **tabular and time-series models** for investment decision-making.
- Studying and applying l**arge language models (LLMs) in financial domains**, including market analysis, financial text understanding, and decision support systems.
- Designing and evaluating **AI-driven system architectures** for **financial applications**, bridging model development with scalable and reliable decision-support systems.

Research Assistant at MetaMind (AIOVN x Toronto University) **June 2025 – now**
AI Researcher, Medical, Visual Information *Part-time*

- Researching **explainable AI (XAI) for medical visual and multimodal image–text systems** to improve interpretability, transparency, and clinical trust.
- Evaluating the **ethical impact of large language models in healthcare**, focusing on fairness, safety, robustness, and hallucination risks in **medical decision support**.
- Applying **reinforcement learning techniques** to improve model performance and alignment, balancing predictive accuracy with interpretability and ethical constraints.

Papers

Published and presented at FAIR 2024 national conference **Link Paper**

- Analyzing and enhancing imbalanced data in fraud detection with **Meta Stacking approaches**.

Published and presented at Q3 ICIT 2024 international conference **Link Paper**

- Addressing data imbalance in insurance fraud prediction using **sampling techniques and robust loss functions**.

Published and presented at Q4 ICCIES 2025 international conference **Link Paper**

- Combining explainable AI (XAI) and regression analysis to **explain relationships in electricity consumption behavior**.

Accepted Publish Public paper at national journal HCMUE University **Link Paper**

- Application of Explainable Artificial Intelligence (XAI) Methods and Traditional Machine Learning Models to Address Renewable Energy Consumption Problems

Published and presented at Q4 ISDS 2025 international conference **Link Paper**

- AI-Powered Investment Advisor: Enhancing Financial Decisions with **NLP and Predictive Agent Analytics**.

Accepted at Q2 FITAT 2025 international conference **Link Paper**

- LatentTabNet: A Transfomer-based Tabular VAE **for Imbalanced Classification**.

Projects

Project: Serverless Chatbot Development on Microsoft Azure services **Source Code**

- Developed a full-stack car e-commerce website using Django, Vite.js, and PostgreSQL. Integrated an AI chatbot powered by OpenAI's API and a fine-tuned GPT-3.5 model to enhance personalization and user engagement. Provided admin-side analytical tools for better business insights. **Python, Django, Vite.js, Fine-tuned GPT, AI, Hugging Face**

Project: Robo Autovisor for Stock Investment in VNStock **Source Code**

- Designed and built an AI-powered application to assist investors with stock market analysis and decision-making. Integrated LangChain and Django to deliver automated insights, financial data visualization, and predictive analytics. Incorporated MLflow and LangFuse for experiment tracking and monitoring. **LangChain, LangFuse, MLflow, Django, Vite.js**

Awards

Science competitions **April 2024 - April 2025**

Batch of 2025 *UEH University*

- Ranked A in the 2025 UEH Young Researcher Scientific Competition
- Ranked C in the 2025 UEH Young Researcher Scientific Competition
- Awarded B for both research projects at the 2024 CTD University-level Science Festival
- Ranked B in the 2024 UEH Young Researcher Scientific Competition

Technology competitions **April 2025**

Batch of 2024 *UEH University*

- Top 12 outstanding projects in the Southern region at the Google Development Hackathon 2025
- Top 30 outstanding projects at the Youth Digital Challenge Hackathon 2025
- Learned how to ideate and develop ideas in real life using innovation knowledge
- Top 5 representatives of Dynamic club nationwide
- Top 3 in Big Idea competitions for innovation ideas
- Top 30 startup ideas in the Southern region (CiC)

Certifications

Microsoft Certified: Azure AI Engineer Associate **Certification**

- Training and using model services in **Azure AI Foundry and Azure services**.

Microsoft Certified: Azure Data Scientist Associate **Certification**

- Explore data and build model end to end using **Azure Auto ML and Azure Machine Learning Studio**.