

LE DINH NGUYEN

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Education

FPT University

Bachelor of Information Technology, Artificial Intelligence

Sep 2022 – May 2026

Ho Chi Minh City, Vietnam

Experience

Rockship

May 2024 – Aug 2024

AI Engineer Intern

Ho Chi Minh, Vietnam

- Increased small nail mark detection accuracy by 10% (mAP@0.5) leveraging ensemble learning with YOLO-Z and CRAFT-TEXT-DETECTOR, streamlining the defect inspection process
- Automated small object annotation for the nail mark detection application by implementing Canny edge detection, significantly reducing manual labeling time by 50%
- Implemented LlamaIndex, a transformer-based indexing solution, to efficiently manage chatbot documents, facilitating faster information retrieval and improved chatbot performance
- Developed a real estate chatbot consultant using CrewAI to construct a single-agent and multi-agent reinforcement learning system, enabling users to interact with the chatbot in a natural and informative way

Dizim.ai

Mar 2024 – May 2024

AI Engineer Intern

Ho Chi Minh, Vietnam

- Developed and deployed machine learning solutions to address complex problems in video data processing, contributing to the company's AI capabilities solving AI human problems
- Developed a crawling automation script that gathered 1000 videos from Youtube and TikTok 30% faster than manual methods, significantly reducing data collection time for AI model training
- Improved the preprocessing pipeline system, leading to a significant enhancement in speaker detection accuracy within videos, which subsequently boosted the performance of lip-sync training models
- Utilized Low-Rank Adaptation (LoRA) techniques to fine-tune the Stable Diffusion model, optimizing cost while achieving high-quality results applicable to various tasks

VietAI

Dec 2023 – Present

Research Collaborator

Part-time

- Reviewed and shared insights on cutting-edge machine learning techniques such as Direct Preference Optimization (DPO), Retrieval-Augmented Generation (RAG) techniques, enhancing team knowledge and project direction
- Designed and executed comprehensive project orientation plans, including paper readings and code implementations, leading to successful demos and a 20% increase in project completion efficiency.

LightVision, Inc

Dec 2023 – Feb 2024

Computer Vision Engineer Intern

Ho Chi Minh, Vietnam

- Facilitated seamless integration of computer vision solutions into multiple cross-functional projects, leading to a 20% increase in project productivity and enhancing the team's expertise in computer vision technologies
- Proposed and implemented improvements to the fire detection function, resulting in a 20% increase in detection sensitivity and minimizing the risk of fire-related incidents for the business

Projects

LLMs Benchmark for Medicine | *Python, HuggingFace, PyTorch*

Mar 2024 – Present

- Contributed to a database of 30000+ medicine and pharmacy Q&A samples in Vietnamese, enhancing its utility for evaluating LLM in answering and decision-making medicine and pharmacy questions
- Applied advanced quantization techniques, including the groundbreaking GPTQ method, to optimize storage capacity and inference performance of large models on limited GPU resources

Elementary Maths Solving Challenge | *Python, PyTorch, Google Colab*

Oct 2023 – Dec 2023

- Facilitated seamless integration of computer vision solutions into multiple cross-functional projects, leading to a 20% increase in project productivity and enhancing the team's expertise in computer vision technologies
- Proposed and implemented improvements to the fire detection function, resulting in a 20% increase in detection sensitivity and minimizing the risk of fire-related incidents for the business

Technical Skills

Languages: Python, C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Google Colab, Google Cloud Platform, Jupyter Notebook

Technologies/Frameworks: PyTorch, Tensorflow, HuggingFace, Pandas