VO DINH DAT

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EDUCATIONS

Ha Noi University of Science and Technology *Ha Noi, Viet Nam*
BSc in Data Science and Artificial Intelligience (DS-AI) *Aug 2021 – Aug 2025 (Expected)*

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Javascript, HTML/CSS.
Machine Learning: Pytorch, Lightning, OpenCV, Huggingface, Scikit-Learn, Pandas, Numpy.
Backend and Cloud: MySQL, MongoDB, FastAPI, Django, AzureML, AWS.
Developer Tools: Git/Github, Docker, Shell, Linux, Postman.

EXPERIENCES

Freelance *Taiwan*
AI and Quantitative Researcher *Sep 2023 – Dec 2023*

- Design and improve the reward function for a reinforcement learning-based trading environment to mimic real-world trading scenarios.
- Developing an agent with capable of navigating the volatility within the trading environment, surpass the performance of traditional ensemble models such as XGBoost, Gradient Boosting,... through backtest evaluation.

VIS Laboratory (Startup) *Ha Noi, Viet Nam*
Part Time AI Engineer *May 2022 – Jul 2023*

- Researched and implemented reinforcement learning algorithms based on current SOTA such as PPO, Transformer, successfully surpass 95% of the environments in the system by competing with other decision-making agents.
- Developed 3 gym-based multiplayer environments for the purpose of researching algorithms.
- Research about Japanese stock market, ensure the credibility of sources and gather data by utilizing web crawling techniques.

PERSONAL PROJECTS

AI Experiment System | *Pytorch, Lightning, Gradio, FastAPI, MongoDB, Gradio* *Mar 2024*

- A web interface enabling users to adjust hyperparameters for the deep learning task and initiate multiple jobs with a single click.
- Real-time display of job progress, presentation of results from completed jobs, sortable by predefined metrics such as accuracy, F1 score and runtime for easy comparison.

Stable Diffusion from Scratch | *Pytorch, Lightning, WandB, Gradio* *Feb 2024*

- Implemented Latent Diffusion Model (Stable Diffusion) from scratch for education purpose, training and tracking experiment using Pytorch Lightning and Wandb.
- Build a simple website to visualize the inference of the diffusion model.

Vietnamese Handwritten OCR | *Pytorch, Lightning, OpenCV, Docker, WandB, Streamlit* *Aug 2023*

- Implemented optical character recognition model for Vietnamese's handwritten text using encoder-decoder structure such as Transformer, LSTM,.., achieve 4% Character Error Rate in the test dataset.
- Build a simple website to visualize the inference of the OCR model.

Personal Website | *Javascript, HTML, CSS, Jekyll* *Jun 2023 – Now*

- My personal blog to share my knowledge about AI, Machine Learning, showing step by step approach the model and implemented it from scratch.
- A landing page contain my contact information and my resume.