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EDUCATIONS

Ha Noi University of Science and Technology

BSc in Data Science and Artificial Intelligence (DS-AI)

Ha Noi, Viet Nam

Aug 2021 – Aug 2025 (Expected)

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Javascript.

Deep Learning Frameworks: Pytorch, Lightning, OpenCV, Transformers, Unsloth, Ollama, LlamaIndex.

Backend and Cloud: MySQL, MongoDB, ChromaDB, FastAPI, Django, AzureML.

Developer Tools: Git/Github, Docker, Shell, Linux, Postman, Figma, Jira.

EXPERIENCES

Freelance

Taiwan

AI and Quantitative Researcher

Oct 2023 – Jan 2024

- 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.

PROJECTS

LLM Finetuning | Transformers, Unsloth, PEFT, Trl

Apr 2024

- Finetune open sources LLM model such as Llama-3, Mistral to perform multiple task such as:
 - Function calling: enable LLM to use external functions and tools.
 - Instruction following: generate detail answers based on the given instruction.

RAG Chatbot | Ollama, LlamaIndex, ChromaDB, Gradio, Docker

Mar 2024

- Build a RAG (Retrieval Augmented Generation) Chatbot that can retrieve information from multiple documents based on user queries and providing precise answers.
- Design a simple web interface so users can customize LLM models and input documents.

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.

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.