Vo Dinh Dat

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EDUCATION

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

Phan Boi Chau Gifted High School — Nghe An, Viet Nam
Specialization in Mathematic; GPA: 3.64 (9.1/10.0) — *Aug. 2018 – July. 2021*

EXPERIENCE

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

- **Reinforcement Learning Agent for Trading**: Developing an Agent with capable of navigating the volatility within the trading environment, surpass the performance of ensemble models.

VIS Laboratory — Ha Noi, Viet Nam
Part Time Machine Learning Researcher — *May 2022 – Jul 2023*

- **Agent for Multiplayer Game**: Research and Develope Reinforcement Learning algorithms based on current SOTA such as PPO, Transformer, successfully surpass 95% of the envs in the System.
- **Multiplayer Game Envs**: Developed 3 Gym's based multiplayer envs for the purpose of researching algorithms.
- **Japanese Stock Market**: Research about Japanese stock market, ensure the credibility of sources and gather data by utilizing web crawling techniques.

Ha Noi University of Science and Technology — Ha Noi, Viet Nam
Data Science Laboratory — *Dec 2022 – Apr 2023*

- **Machine Learning Research**: Learn and Research about fundamental challenges in Machine Learning.

TECHNICAL SKILLS

Languages: Python, Javascript, Java, C++

Framework: Pytorch, OpenCV, Huggingface, Scikit Learn, Polars, FastAPI, Flask

Developer Tools: Git, Github, Docker, Bash, Linux, Postman, AzureML, AWS

Research Topics: Transformer-Based Model, Large Language Model, Policy Gradient Model

PERSONAL PROJECTS

Vietnamese OCR: OCR model for Vietnamese's handwritten text using Transformer, achieve 4% CER (Character Error Rate) in the test dataset. **Tools:** Python, Pytorch, Lightning, OpenCV, Docker

Personal Website: My personal blog about AI, Machine Learning and landing page for personal information and resume. **Tools:** Javascript, HTML, CSS

PPO Transformer: A Reinforcement Learning project using PPO and Transformer for multiplayer game, successfully surpass other algorithms in the system. **Tools:** Python, Pytorch

Piano Generation: Generate classical piano in MIDI format using generative model such as Transformer, GPT2,... **Tools:** Python, Lightning, Huggingface

Laptop Price Prediction: An end to end data science project about laptop price prediction, crawling, analyzing and modelling to gain insight about current laptop market. **Tools:** MongoDB, Selenium, Polars, Seaborn, Scikit-Learn

Physic Simulation: An interactive simulation designed to demonstrate Newton's laws of motion, written in Java and JavaFX. **Tools:** Java, JavaFX, Scene-builder

LANGUAGES

Vietnamese: Native language.

English: Full professional proficiency.