Phan Van Phuc

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EXPERIENCE

AI Engineer — Oct. 2023 – Feb. 2024
ZenAI — *Ha Noi, Viet Nam*

- Effectively train large language models (e.g., BERT, GPT-like models with billion params) on multiple GPUs
- Analyze customer feedback and requirements to pinpoint problem areas; design and implement effective solutions for clients and customers
- Enhanced inference efficiency and optimized resource utilization

Research Collaborator & Teaching Assistant — Jan. 2023 - Present
VietAI — *Viet Nam*

- Co-taught Deep Learning and NLP-related courses in Autumn & Winter 2023, Spring 2024
- Constructed first biggest open source Vietnamese ASR dataset, having **100+** downloads/month
- Released a novel algorithm for large language models, achieving SOTA performance on arithmetic and commonsense reasoning benchmarks

AI Researcher Trainee — Jan. 2023 - Apr. 2023
Pythera AI — *Tan Binh, Viet Nam*

- Conducted the documentation and explored the efficiency of dense embedding on the GPTJ model

PROJECTS

Bud500 | *HuggingFace, Audio* — Feb 2024

- Built a **biggest open source** Vietnamese dataset with **500 hours** talk of Vietnamese people, the data primary from Youtube source
- Developed a quality assessment pipeline utilizing Wav2Vec Vietnamese to preprocess and evaluate crawled data

Open Sources Contributor | *HuggingFace, Meta, Microsoft* | *Pytorch, JAX* — Present

- Contributed **300+** lines of code to prominent open-source libraries (Huggingface, Optiguide, etc.), enhancing Transformers examples for PyTorch and Flax. My PR in HuggingFace
- Improved mainly on debugging errors, optimizing code, documenting functionality, and boosting processing speed

EDUCATION

FPT University — Ho Chi Minh, City
Information Technology, Artificial Intelligence | GPA 3.75/4 — *2021 - 2024*

TECHNICAL SKILLS

Languages: Python, SQL
Developer Tools: Git, Docker, Google Cloud Platform, MongoDB, Kubernetes, Linux
Libraries: Pytorch, JAX, Transformers, DeepSpeed, PEFT, Axolotl, scikit-learn, LLamaIndex, NumPy, Pandas, Flask

HONORS & AWARDS

Fifth Place, in *FPT AI Challenge 2023*
Third Prize, in *FPTU Research Festival Competition 2023*

ACTIVITIES

Developer Student Community (DSC), **Leader**, 50+ members

PUBLICATIONS

Phuc Phan[*], Hieu Tran[*], Long Phan. 2024. Distillation Contrastive Decoding: Improving LLMs Reasoning with Contrastive Decoding and Distillation