

DINH NHAT TRUONG

GITHUB

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EDUCATION

UNIVERSITY OF INFORMATION AND TECHNOLOGY - Ho Chi Minh National University 2022 - Present
(HCM-VNU)

- Major in Computer Science
- Overall GPA: 3.2/4

AIO Course

- Study and research about AI, Machine Learning, Computer Vision, and NLP...

PROJECTS

Lifelog Event Retrieval | AI Challenge 2024

- Developed a lifelog search information retrieval system for the AIC 2024 competition.
- Earning the Encouragement Award.
- Fine-tune Paddle-ocr based on Vin scene text recognition.
- Generated text describing events in the image.
- Created an algorithm to process large amounts of keyframes.
- **Technology stack:** BLIP, Paddle-ocr, Fusecap, RAM, grouping DINO, Elastic search.

Legal Document Retrieval | SolCT Hackathon 2024

- Designed a legal document retrieval system comprising two main components: a Bi-Encoder and a Cross-Encoder.
- Classifying whether the information and the given sentence are related to each other or not.
- Achieved an MRR@10 score of 71.98%
- Coded pipeline to finetune and evaluation models.
- Conducted in-depth research on data distribution.
- Preprocessed text and config fine-tuning both the Bi-Encoder and Cross-Encoder to achieve optimal performance.
- **Technology stack:** Pandas, sentence transformer, language model, and word segmentation.

Fact Verification | UIT Data Science Challenge 2023

- Developed a system for extracting evidence from context and classifying its relevance to a given claim, enhancing automated fact-checking and information validation.
- Placing 14th in the rankings.
- Researched and identified the optimal model for the given task.
- Fine-tune the classification model to determine whether a "hypothesis" is entailment, contradiction, or neutral given a "premise."
- **Technology stack:** XLM-Roberta-Base, PyTorch.

PUBLICATION

Transforming Video Search: Leveraging Multimodal Techniques and LLMs for Optimal Retrieval
accepted in **SolCT 2024 Conference**.

- Combined embedding-based and text-based search.
- Added new functions, such as image captioning, OCR, and image generating.
- Designed an intuitive and user-friendly interface.

SKILLS

Languages: IELTS 6.5

Programm language: Python, C++, Sql

Tools: ElasticSearch, Grant, huggingface, PyTorch