

Quang Truong Nguyen

Student

I'm a person who loves challenge and always interested to learn new things. I see a problem as a challenge to make me grow as a person. I always try to break my limit and eliminate the mental wall.



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EDUCATION

Bachelor

VNU-HCM, University of Science

09/2021 - Present

GPA: 9.12/10 [3.78/4]

Major

- Mathematical Computer Science

PROJECTS

Face Image Retrieval

[Link]

Content

- The Face Image Retrieval project aims to develop an efficient and accurate retrieval system for facial images within the CelebA dataset. Training a Siamese Network with the CelebA dataset using SupConLoss from Supervised Contrastive Learning paper for metric learning. By utilizing Content-Based Image Retrieval (CBIR) techniques, the system enables users to search for facial images based on their visual content rather than textual annotations.

[Mini] Design Simple CNN

[Link]

Content

- This project aims to design and implement a Convolutional Neural Network (CNN) tailored for image classification. Utilize a well-known dataset for image classification: CIFAR-10. Implement the CNN using PyTorch, taking advantage of its powerful functionalities for building neural networks. Design a unique CNN architecture. Implement data augmentation techniques. Hyperparameter Tuning.

[Mini] RNNs for emotion classification in Vietnamese

[Link]

Content

- Recurrent Neural Networks (RNNs) using PyTorch for emotion classification in Vietnamese text. Dataset: [UIT-VSMEC](#). Convert sentences into a format suitable for RNN input. Appropriate RNN architecture: RNN, LSTM, BiLSTM. Design the input and output layers of the model. Transfer Learning: explore the potential of transfer learning by using pre-trained word embeddings Word2Vec FastText.

SKILLS

AI: Machine Learning, Deep Learning, Data Mining, Neural Network, Computer Vision, Sequence Model,...

Programming language: Python, R, SQL, C/C++, HTML, CSS

Data: Data Analysis, Data Visualization, Data augmentation,...

Math: Analysis 1A, 2A, 3A, 4A. Calculus 1, 2A. Linear Algebra, Statistics,...

scikit-learn, pytorch, transformers, numpy, pandas, OpenCV, ..

VOICE ASSISTANT USING MULTIMODAL LLMS

Voice assistant using Multimodal LLMs. Using PhoWhisper to transcribe speech into text-based questions. (In progress) Fine-tuning the LLaVA-NeXT (Mistral- 7B) model to improve its ability to answer image-related questions more effectively in Vietnamese. Visual question answering about an image using this multimodal LLM. Convert a text-based answer into speech (text-to-speech) to the user.

- [\[LINK\]](#)

ACHIEVEMENTS

Receive Good Scholarship for all semesters
(HCMUS)

Scholarship for the National Key Program for Mathematics Development.
(VIASM)

PARTICIPATE

Google Cloud Devfest HCM

UCPC (UIT)

ICPC (HCMUS)

Summer School Data Science (VIASM)