Thanh Cong Nguyen
AI Engineer (Fresher/Junior)

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SUMMARY

Motivated recent graduate with a Bachelor's degree in Computer Science, specializing in Artificial Intelligence, seeking to apply my skills and knowledge in an AI Engineer position. Experienced in machine learning, deep learning, data analysis, and software development. Proven ability to solve problems, work in teams, and deliver effective solutions on time.

EXPERIENCES

AI ENGINEER (AI TALENT PROGRAM)

VinBigdata (Vingroup Inc)   07/2022 - Present

• Conducted biomedical research with a focus on understanding gene-related concepts, data processing, and scholarly inquiry. Traine and tested models for genotype imputation problems, proposing innovative methods aimed at enhancing accuracy and competitiveness with other tools available in the market for this issue.

• Participated in numerous courses led by experts in Machine Learning, Computer Vision, Natural Language Processing, Statistics, and Linear Algebra. Concurrently engaged in related projects including: Image generation from sketches, Named entity recognition fine-tuned on the BERT model.

AI ENGINEER

ThinkPrompt   04/2022 - 07/2022

• Responsible for data crawling from the web using Scrapy and Selenium

• Conducted research, data preprocessing, testing, and development of a machine learning method aimed at optimizing profits in horse race betting

FREELANCER

www.freelancer.com   2022

Completed several projects for clients related to computer vision, such as fatigue detection, drunkenness detection, OCR on documents.

• Developed custom solutions for specific problems

• Training model on customer data

• Crawl Data using Scrapy and Selenium

• Executed the repository operations in accordance with client specifications and requirements

PROJECTS

Video retrieval system - HCM AI Challenge 2022

Building a system to search for video using text descriptions in a large database: 900 videos, about 300 hours, 300 gigabytes in HCM AI Challenge 2022:

- Preprocess video, extract keyframe, trim segment
- Extract visual information from extracted keyframes
- Extract text appeared in the video using OCR
- Extract speech in video using ASR
- Build vector similarity search using FAISS, build text search using elasticsearch, building web-based application for searching

Movie summarization - Graduation thesis and Msum Trecvid 2022

Building and running an experimental method of summarizing the important events of a character in the movie. The goal is to efficiently capture important facts about certain characters during their role in the movie's storyline.

- Preprocess video, detect shot boundary, trim segment, extract keyframe
- Extract face information using face detection and face recognition
- Extract speech in video using ASR
- Combine features to find segments that are likely to be important events
- Building web-based application for data visualization

Vietnamese scene text recognition

Training and fine-tuning model by integrating PaddleOCR for text detection with VietOCR for text recognition, enhanced with dictionary-guided techniques to accurately interpret Vietnamese text in outdoor scene images

Optical Character Recognition (OCR)

Trained a model aimed at recognizing text for advertising products targeting the Chinese-speaking market

ACHIEVEMENTS

- First prize in HCM AI Challenge 2022 Event Retrieval from Visual Data
- Three Scholarship of University in 3rd, 5th, 6th semester to encourage excellent student.

EDUCATION

Computer Science Bachelor

University of Information Technology, VNU Ho Chi Minh City 2019 - 2023

GPA: 8.6/10 (A)

TOEIC: 700/990

TOEIC SPEAKING WRITING: 260/400