NHAN NGUYEN

NGUYỄN TƯ THÀNH NHÂN

Passionate AI specialist with a strong background in research and mathematical principles. Excels in competitions, showcasing proficiency in AI. Seeking AI jobs to contribute expertise in driving innovation and solving complex problems. Committed to pushing the boundaries of artificial intelligence for a limitless future.

CONTACT

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ngtuthanhan

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SKILL HIGHLIGHTS

PROGRAMMING

Programming Language: Python, C/C++, JavaScript

Frameworks/ Platforms /Packages: Tensorflow, PyTorch, Pandas, Numpy, Matplotlib, OpenCV, Docker, ReactJS, SSH

System Version Control: Git/ Github

Database Management: MySQL

Others: Latex, Understanding concepts of OOP, DSA

MATHEMATICS

Linear Algebra, Probability and Statistical, Calculus, Optimization

SOFT SKILLS

Collective, Time Management, Leadership, Problem Solving, Critical Thinking

LANGUAGES

Vietnamese, English

EDUCATION

University of Information Technology 2020-Present

Bachelor's Degree (Honor Program)

Major: Computer Science

GPA: 8.95/10.0

Vo Nguyen Giap Gifted High School 2017-2020

High School Diploma

Specialty: Mathematics

GPA: 8.8/10.0

CERTIFICATES

MASSP - Math and Science Summer Program 2021

PIMA - Project in Math and Application Research Summer Camp 2021

Penn - Computational Thinking for Problem Solving 2022

Michigan - Problem Solving Using Computational Thinking 2022

ACHIVEMENTS, HONORS & AWARDS

Odon Vallet Scholarship 2019

Third prize of Vietnam Mathematical Olympiad 2020

Consolation prize of AI – Challenge organized by Ho Chi Minh City 2021

Second prize of National Mathematical Olympiad for University Students in Algebra 2022

Consolation prize of National Mathematical Olympiad for University Students in Calculus 2022

Second prize of AI – Challenge organized by Ho Chi Minh City 2022

NHAN NGUYEN

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REFERENCE

Assoc. Prof. Duy-Dinh Le

duydl@uit.edu.vn

ACTIVITIES

CS-UIT AICLUB

B2DL-UIT

ELO@UIT K2022

PROJECT

Event Retrieval from Visual Data

Description: Utilizing the CLIP model for keyframe and text information extraction, combined with the SCANN model for nearest neighbor search, secured the 2nd Prize at the Final Round of AI Challenge HCM 2022 for video segmentation from 300 hours of news

My contributions: Building a web interface that enables keyframe searches based on text queries

Tech stack: FastAPI, ReactJS, MongoDB, Docker

Body Segmentation and Action Recognition

Description: We trained and employed the Unet model for body segmentation preprocessing on each frame of the provided shorted-video-type dataset to solve the gesture recognition problem. By leveraging SlowFast's video feature extractor for gesture recognition, we achieved the 9th rank in the public test at BKAI-Naver AI Challenge 2022.

My contributions: I led the team and played a crucial role in exploring and experimenting with various gesture recognition models as part of our efforts to solve the problem.

Medicine Pill Image Recognition

Description: Detecting and recognizing pills involves using FGVC-PIM for classification and Yolov7 for detection. With this approach, we achieved the 6th position in the Public Test round of AI4VN Competition - VAIPE 2022, showcasing our successful pill identification system for prescriptions and pills not listed on prescriptions.

My contributions: Relabeling the dataset and conducting extensive experiments with detection and recognition models, resulting in improved model performance.

Vietnamese Scene Text Recognition

Description: We developed a method to detect and recognize text captured in diverse environments using different camera types. By employing ABCNetv2 for text detection and utilizing VietOCR and SRN for recognition, our system achieved recognition accuracy and earned the consolation prize in the Final Round of AI Challenge HCM 2021.

My contributions: Data collection, relabeling, analysis, and designing an innovative pipeline, contributing to the project's success in achieving reliable outcomes.