NGUYEN DUC TRI

+84 383-514-104 · Ho Chi Minh City, Vietnam
tri14102004@gmail.com · linkedin/sh1nata · github/sh1nata-piash1nlin

OBJECTIVES

PROJECTS

Crab Age Prediction - Kaggle Competition - Side Project (1 member) Dec, 2023

Description: The aim of this project is to estimate the age of crabs accurately based on a range of crab-specific physical attributes.
Framework: Scikit-learn
Responsibilities: Conducted an in-depth investigation into predicting the age of crabs by performing comprehensive data preprocessing, leveraging advanced machine learning algorithms, fine-tuning hyperparameters, evaluating model performance, and implementing strategies to enhance prediction accuracy.
Repository: github.com/sh1nata-piash1nlin/Crab-Age-Prediction

Vietnamese Currency Recognition - Side Project (1 member) Dec, 2024

Description: Developed a deep learning-based system to recognize Vietnamese banknotes, aimed at assisting visually impaired individuals in identifying currency using computer vision techniques.
Framework: Pytorch, Torch, OpenCV, Scikit-learn.
Responsibilities: Designed and trained a VGG-based CNN model using PyTorch, implemented preprocessing pipelines with OpenCV, evaluated model performance with Scikit-learn to ensure robust classification of various denominations and used some methodologies to enhance the model's accuracy.
Reposistory: github.com/sh1nata-piash1nlin/VGG-pytorch

UNET for Brain MRI Segmentation - Side Project (1 member) Dec, 2024

Description: Utilized a UNet-based deep learning model to perform precise segmentation of brain tumors from MRI scans, aiming to assist medical professionals in early diagnosis and treatment planning.
Framework: Pytorch, Torch, OpenCV.
Responsibilities: Designed and trained a UNet architecture tailored for medical image segmentation, conducted extensive data preprocessing including skull stripping and intensity normalization, implemented augmentation strategies to improve model robustness, and evaluated performance using metrics such as Dice coefficient and IoU.
Reposistory: github.com/sh1nata-piash1nlin/UNet-pytorch

Deeplabv3 - Side Project (1 member) Dec, 2024

Description: Developed a semantic segmentation system using DeepLabV3 to accurately segment brain tumors from MRI scans, facilitating medical diagnosis through automated analysis.
Framework: Pytorch, Torch, OpenCV.
Responsibilities: Implemented and fine-tuned a DeepLabV3 model tailored for medical image segmentation, performed extensive preprocessing including bias field correction and normalization, applied data augmentation to enhance generalization, and evaluated performance using metrics such as IoU and pixel accuracy.
Reposistory: github.com/sh1nata-piash1nlin/Deeplabv3-Pytorch

SKILLS

- *Language*: Python, C++, C#
- *Frameworks & Library*: Pytorch, Scikit-learn, OpenCV, Torch
- Database: MySQL
- *Tool:* Git, Figma, Docker
- *Soft Skills*: Communication, Problem-Solving, Presentation, Teamwork, Self-Study.

EDUCATION

Ho Chi Minh University of Technology and Education - HCMUTE 2022 - Present
Major: Information Technology
GPA: 3.44/4.00

CERTIFICATIONS

IELTS Dec, 2021
Band: 6.0