NGOC-TRAM NGUYEN

Curriculum Vitae

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EXPERIENCE

Al Freelancer

Feb 2023 - Now

♥ Ho Chi Minh City, Viet Nam

• Building Abnormal Action Detection System

- Leveraged computer vision techniques to detect humans in video frames and extract their 3D pose information.
- Trained a 3D Convolutional Neural Network (CNN) to classify actions as normal (e.g., clapping, shaking hands) or abnormal (e.g., falling, head touching, shooting).

• Developing an Early Action Recognition System

- Developing a deep learning model to predict human actions in videos from short snippets (10-90% observed).
- This system has potential applications in traffic accident warnings, patient healthcare monitoring, and other real-time scenarios.

• Text-to-Speech Synthesis

- Text synthesized into a speech similar to the human voice.
- Developed a deep learning model to convert Mel-spectrograms (intermediate representation of speech) into high-quality audio waveforms.
- Focused on the second stage of text-to-speech synthesis for realistic speech generation.

Al Research Assistant

AISIA Research Lab

math display="block"> Dec 2022 - June 2023

♦ Ho Chi Minh City, Viet Nam

• Developing Radar Waveform Classification Model

- Researched paper about waveform classification in radar communication systems to design a novel deep-learning architecture.
- Preprocessed radar data by generating 12 unique signal representations using MATLAB.
- Implemented and optimized a deep learning model for robust classification under varying signal-to-noise ratios (SNRs).

Al Engineer

Emage Development Co.Ltd

🛗 Jan 2020 - June 2020

♦ Ho Chi Minh city, Viet Nam

- Implemented image pre-processing and post-processing techniques (OpenCV) to enhance the accuracy of deep learning models for semiconductor defect classification.
- Developed an automated labeling algorithm (Python) integrated into a labeling application, achieving a processing speed of 0.02 seconds per click.
- Designed and trained cutting-edge deep learning and machine learning models for robust classification of semiconductor defects.

SKILLS

Coding: Tensorflow, Pytorch, OpenCV,

Scikit-Learn, Python

Database: Mysql, MongoDB **Cloud:** AWS (AuroraDB, EC2)

EDUCATION

Faculty Of Mathematics And Computer Science

Ho Chi Minh University Of Science, Vietnam National University Ho Chi Minh City

🗎 September 2016 - April 2021

• GPA: 7.6/10.0

Master Program in Computer Science Ho Chi Minh University Of Science, Vietnam National University Ho Chi Minh City

December 2021 - Now

• Thesis: Developing an Early Action Recognition System

• GPA: 8.2/10.0

AWARD

• The First Price in Developer Circles Vietnam Innovation Challenge.

Organizers: Facebook & Coder School Description: Fraud detection on identification cards. It supports staff to speed up their validation process.

- OCR: get information from ID card (Google Cloud Vision API).
- Face comparison: compare the face on the ID card and that on the selfie photo (Amazon Rekognition – AWS).
- Document template check: validate the template (Template Matching - OpenCV)

REFERENCES

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Al Team Leader at Emage Development Co.Ltd