LE THANH-DANH

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EDUCATION

University of Science, VNU-HCM   2019-2024

Bachelor in Computer Science

- Advanced Program in Computer Science program

- Language of instruction: English

- Thesis: EFFICIENT 3D BRAIN TUMOR SEGMENTATION USING 2D PRETRAINED WITH ACS CONVOLUTIONS; Grade: Outstanding

TECHNICAL STRENGTHS

Programming	Python, Bash
Frameworks	PyTorch, Tensorflow, Keras, scikit-learn
Data analysis	NumPy, Pandas, Matplotlib, Plotly
DevOps	DeepStream, Docker
Backend	Redis, FastAPI, LLamaindex
Typesetting Document	Latex

PUBLICATIONS

Efficient 3D Brain Tumor Segmentation with Axial-Coronal-Sagittal Embedding   Conference
Best Paper Awards @ PSIVT   *November 2023*

· Tuan-Luc Huynh, <u>Thanh-Danh Le</u>, Tam V. Nguyen, Trung-Nghia Le, and Minh-Triet Tran DOI

SketchANIMAR: Sketch-based 3D animal fine-grained retrieval   Journal
COMPUTER & GRAPHICS — ELSEVIER   *July 2023*

· Trung-Nghia Le, [et al., including <u>Danh Le</u> and Minh-Triet Tran] DOI

Surface-based protein domains retrieval methods from a SHREC2021 challenge   Journal
JOURNAL OF MOLECULAR GRAPHICS AND MODELLING — ELSEVIER   *March 2022*

· Florent Langenfeld, [et al., including <u>Danh Le</u> and Minh-Triet Tran] DOI

SHREC 2021: Retrieval and classification of protein surfaces equipped with physical and chemical properties   Journal
COMPUTER & GRAPHICS — ELSEVIER   *October 2021*

· Andrea Raffo, [et al., including <u>Danh Le</u> and Minh-Triet Tran] DOI

SHREC 2021:Surface-based Protein Domains Retrieval   Online
THE 14TH 3D OBJECT RETRIEVAL WORKSHOP (3DOR'21)   *September 2021*

· Florent Langenfeld, [et al., including <u>Danh Le</u> and Minh-Triet Tran] DOI

[Workshop] MediaEval 2021 Multimedia Benchmark   Online
seminar paper   *September 2021*

· HCMUS at MediaEval2021: Polyps Segmentation using TransFuse with Focal Tversky Loss. Working notes

· HCMUS at MediaEval2021: Content-Based Misinformation Detection Using ContextualizedWord Embedding from BERT Working notes
· HCMUS at MediaEval 2021: Fine-tuning CLIP for Automatic News-Images Re-Matching Working notes

WORK EXPERIENCE

University of Science, VNU-HCM Visit Teaching Assistant
Oct 2023-Present *HCMC Vietnam*

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- CM102-Critical Thinking: couching student active study and critical thinking in computer science.
- CS407-Technology-based Innovation and Leadership: contributed to course project, homework, coaching.

Phenikaa MaaS AI Engineer
June 2022 - Dec 2023 *HCMC Vietnam*

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- Proposed and implemented multiple object detection algorithms using Kalman filter and Hungarian algorithm demo
- Developed a student ID information extraction system including OCR and card alignment algorithm.
- Developed rich feature facial applications including face recognition in various settings including masks, age, and gender.
- Contributed to the development of an AI-based fraud detection system using machine learning techniques.
- Serving, monitoring, and deploying models in real projects.

SELab, VNUHCM-US Lab Assitants
Sep 2020-Present *HCMC Vietnam*

· Contributed to various research projects relevant to:
- Multi-modal information retrieval including 3D Objects, Images, and Text in various application domains such as surface-based proteins, medical images.
- Computer vision domain: medical image segmentation, Object Detection, and Pattern Recognition

PERSONAL PROJECTS

Lay's New Year IMC <div align="right">AI Engineer</div>
2024 <div align="right">*HCMC Vietnam*</div>

· project information. Responsibilities for

- Brainstorming, planning master ideas for the projects and how AI could be applied in the advertising industry.

- Fine-tuning stable diffusion by applying Low-Rank Adaptation technique.

- Setting up an end-to-end model to generate new faces that inherited features from celebrities.

Stylix <div align="right">AI Engineer</div>

· project's information. Responsibilities for

- Developed an inpaint module using deep learning techniques and implemented it as a part of the company's product offering

- Successfully deployed a deep learning model using Flask and Docker, improving the scalability and portability of the model.

LEADERSHIP AND ACTIVITIES

Google Developer Student Club <div align="right">April 2021 - May 2022</div>
Community Lead <div align="right">*University of Science*</div>

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- Gained experience in management

- Gained experience in building community.

- Localized document framework(Tensorflow, Flutter).