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Thai Thi Kim Yen

Computer Scientist

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Dedicated computer science student with a strong academic background and a keen interest in emerging technologies seeking to broaden my knowledge and gain hands-on experience. Eager to immerse myself in challenging projects that will enhance my problem-solving abilities and prepare me for a successful career as a MSc in Computer Science within the next four years.

Education

Ho Chi Minh City University of Education (HCMUE) **October 2021 - 2025**
Bachelor of Information Technology
Major: Computer Science - GPA: 3.5

- **Consolation prize - Faculty of IT**, *Scientific Research for Students* May 2024
- **Consolation prize - HCMUE**, *Scientific Research for Students* June 2023
- **Second prize - Faculty of IT**, *Scientific Research for Students* May 2023
- **Encourage academic scholarship**, *In the top 10 best students of the entire course* Semester 1, 2022 - 2023

Skills

Programming Languages	Python (*Pytorch, TensorFlow, Keras, Scikit-learn*), C/C++, C#, R, MSSQL
Hard skills	AI, Machine Learning, Deep Learning (*Algorithms and applications*)
	Computer Vision (*Digital Image Processing, Detection, Segmentation, Object Tracking*)
	Natural Language Processing (*Text Mining, Text Classification*)
Soft skills	Leadership, Teamwork, Time Management, Problem-solving
Communication	Vietnamese, English

Technical Experience

SENTIMENT ANALYSIS / Team leader **June 2024**
We solve the sentiment analysis problem using deep learning models and Transformer-based models.

- Processing language data in English and Vietnamese
- Design and Training Deep learning models
- Evaluating experimental results

CHICKEN FARM WARNING SYSTEM / Scientific Assistant **May 2024 - June 2024**
This is a pre-feasibility study project for a warning system for Ba Huân chicken farms.

- Processing and labelling Thermal image and video data
- Design and Training Deep learning models to detect dead-laying hens
- Evaluating experimental results

SMART GLASSES TO SUPPORT READING FOR VISUALLY IMPAIRED STUDENTS / Research team leader **June 2023 - May 2024**
This study focuses on the technologies of Document Analysis and Recognition (DAR) and IoT deployment.

- Researching and improving deep learning models for DAR tasks
- Exploring automatic annotation technologies for non-textual components
- Deploying algorithms on Raspberry Pi

DETECTING AND IDENTIFYING VIOLENT BEHAVIOR / Member of the research team **July 2022 - May 2023**
This research falls within the field of Computer Vision and primarily focuses on deep learning models for this problem

- Extracting and processing human skeleton features from image and video data
- Designing and training deep learning models

Publications

The Model To Automatically Detect Dead Laying Hens And The Development In The Farm Accepted
*Viet, N., **Yen, T.**, Son, T., & Phap. H. (2024)*
The 16th IEEE International Conference on Knowledge and Systems Engineering (KSE 2024)

Building Document Reading Assistant for The Visually Impaired Accepted
***Yen, T.**, Ha, N., Tran, V., Vy, H., Nhi, T., & Viet, N. (2024)*
Ho Chi Minh city University of Education Journal of Science (HCMUE J. Sci.)

Real-Time Detection of School Violence using Machine Learning and Human Skeleton Tracking Published
*Trong, N., Phi, T., **Yen, T.**, Phung, T., Tai, L., Hau, L., & Nha T. (2023)*
International Journal of Advanced Engineering (IJAE). Vol. 06, No. 01.