





# LE MINH HUNG

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## EDUCATION

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### HaNoi University of Science and Technology – HUST

HaNoi, VietNam | 9/2019 – 7/2024

- Engineer of Electronics – Telecommunication Engineering
- CPA: 3.21/4.00

### ALL-IN-ONE COURSE (AIO2023) – AIVIETNAM

- The courses related to linear algebra, probability, statistics, machine learning, deep learning, and MLOps.
- Study and develop machine learning and deep learning models applied in the field of computer vision and NLP: Classification, Object Detection (R-CNN, SSD, YOLO, ...), Segmentation Image, Depth Estimation, Text-to-Image, Image-to-Text, Image Captioning, Vision Question Answering, ...

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## EXPERIENCES

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### AI Engineer | AvePoint Inc.

HaNoi, Vietnam | 10/2024 – Present

- Developed and deployed chatbot systems using Retrieval-Augmented Generation (RAG) and AI Agents.
- Built scalable MLOps pipelines for training, evaluation, and deployment of large models.
- Researched applications of Large Language Models (LLMs) in technical and enterprise contexts.

### Research Study Assistant | SIGM-Lab HUST

Hanoi, Vietnam | 1/2023 – 10/2024

- Contributed to a research project on 3D reconstruction from single images.
- Authored technical reports and prepared demos for academic presentations and conferences.

### Intern Research Study Assistant | Vietnam - Korea Institute of Science and Technology (VKIST)

Hoa Lac Hi-Tech Park, HaNoi, VietNam | 8/2023 – 12/2023

- Researching and using the Poliface imaging system.
- Research and develop a facial recognition system across multiple cameras in the CCTV network. This system was trained on data with various resolutions to improve the recognition of small faces. Additionally, the knowledge distillation method was applied to optimize deployment on edge devices. The result achieved 92.6% accuracy during real-world deployment.

### Member of SansLab | HUST

HaNoi, VietNam | 2/2021 – 6/2023

- Participated in developing a system for license plate recognition and counting the number of vehicles in a parking lot.
- Cooperation project with Viettel Hi-Technology Industries Corporation to research and develop AI technology in telecommunications applications. Analyze and learn the characteristics of user movement data. Apply Machine Learning algorithms to predict user movement trajectories, optimizing data transmission and delivery.

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## PROJECTS

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### VISION - LANGUAGE

#### 1. Image – Text Matching

- Description: Entering the Musti competition to develop a system that can interpret and classify scents using a combination of text and images, with potential applications in various fields.
- Methods employed: By combining text and image features, our multimodal model aims to classify and predict scent-related attributes. Image features are extracted using a voting mechanism among Vision Transformer, SwinTransformer, and ResNet50 to improve generalization. A multilingual BERT model is used for text feature extraction. Furthermore, an image-guided BERT architecture is proposed.
- Ranked top 2 in the MediaEval 2023 conference challenge at Track 2, Subtask 1.

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## SKILLS

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### Programming & Software Development

- **Programming language:** Python, C++
- **Deployment:** Docker, Kubernetes, Git, CI/CD, Azure, AWS, ...

### Machine Learning & Deep Learning

- **Framework:** Tensorflow, Pytorch, Onnx, Langchain, Fast API, ...

**Soft Skills:** Problem-Solving, Communication Skills, Research & Development, Teamwork & Collaboration.

**English:** IELTS 6.5

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## CERTIFICATIONS

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- 40th Scientific Research Student of Hanoi University of Science and Technology
- Top 2 in MediaEval 2023 conference challenge “Musti: Multimodal Understanding of Smells in Texts and Images”

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## PUBLICATION

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- T.-T. Cao, V.-D. Truong, T.-T.-H. Nguyen, E. Verleene, **M.-H. Le**, D.-A. Nguyen, T.-T. Nguyen, V.-H. Dao, and H. Vu, “A combination of YOLO and OSNet Re-ID neuronal networks for tracking abnormalities in upper gastrointestinal endoscopy videos,” in Proc. Information and Communication Technology, Singapore: Springer Nature Singapore, 2025, pp. 55–68. doi: 10.1007/978-981-96-4285-4\_5.
- **H.-L. Minh**, D.-V. Truong, H.-X. Manh, V.-H. Dao, P.-B. Nguyen, T.-T. Nguyen, and H. Vu, “3-D reconstruction from consecutive endoscopic images using Gaussian splatting,” in *Proc. Computer Vision – ACCV 2024 Workshops*, Singapore: Springer Nature Singapore, 2025, pp. 134–146. doi: 10.1007/978-981-96-2644-1\_10.
- Le Ngoc Duc, **Le Minh Hung**, and Dinh Quang Vinh. (2023). “Handle the problem of ample label space by using the Image-guided Feature Extractor on the MUSTI dataset”. In Steven Hicks, Andreas Lommatzsch, Ali Hürriyetoglu, Romain Vuille-mot, Mihai Gabriel Constantin, Vajira Thambawita, and Martha A. Larson (Eds.), Working Notes Proceedings of the MediaEval 2023 Workshop, Amsterdam, The Netherlands and Online, 1-2 February 2024 (Vol. 3658). CEUR-WS.org. Available at: <https://ceur-ws.org/Vol-3658/paper5.pdf>
- Phung, Kieu-Ha, Van-Phu Tran, **Minh-Hung Le**, Nguyen Tai Hung, Nguyen Huu Thanh, Pham Quang Diep, Le Van Hien, Mai Xuan Ngoc, và Le Minh Tu. "A Novel Method in Mobile Subscriber Location Estimation

for Enhancement of Paging Procedure in Mobile Cellular Networks." In: 2023 14th International Conference on Information and Communication Technology Convergence (ICTC), Oct. 2023, pp. 852-857.