VAN TUAN LE

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Hanoi, Vietnam

EXPERIENCE

• **NVIDIA [🌐]**   *Dec 2024 - now*
Applied Scientist   Hanoi, Vietnam

◦ Researching and developing techniques applying the transfer learning to address the domain shift problem in the medical domain

◦ Advisor: Van Ha Tang, PhD

• **Samsung SDS [🌐]**   *Feb 2023 - Nov 2024*
AI Research Engineer   Hanoi, Vietnam

◦ Researched and developed a Text-editing Diffusion model to modify some text areas with other contents, so that maintain the original style with the realistic appearance.

◦ Researched, developed and deployed a Visual information extraction model to accurately categorize entities and match them as key-value pairs in documents, which achieved a long-term contract with Singaporean customers and some business opportunities.

◦ Researched and deployed the precise Optical Character Recognition (OCR) system that covered many different types of documents.

◦ Advisor: Principal Engineer Nguyen Minh Tri, PhD

• **VinBrain JSC [🌐]**   *Feb 2022 - Dec 2022*
Applied Scientist   Hanoi, Vietnam

◦ Contributed on Computer-Aided Diagnosis solution to determine liver cancer by analyzing Vietnamese abdomen multi-phases CT images:

  1. Researched and developed AI model to classify phase for the multi-phases dynamic CT images, achieving over 95% classification's accuracy on the real data.
  2. Researched and Developed AI model to segment hepatic region for the multi-phases dynamic CT images.
  3. Reviewed the model's results on the production to evaluate the real performance and take necessary measures.

◦ Advisor: Soan T.M. Duong, PhD

• **VinBigdata Institute [🌐]**   *Sep 2021 - Jul 2022*
Technology Specialist   Hanoi, Vietnam

◦ Completed courses in the AI Engineer Training Program, including Python, Linear Algebra, Probability and Statistics, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, AI Ethics.

◦ Leaded a team with 4 members to complete 3 projects:

  1. Ventilator Pressure Prediction
  2. Semi-unsupervised Semantic Segmentation
  3. Detect and suggest corrections in Vietnamese documents

• **iBME Lab [🌐]**   *Jan 2017 - Jan 2023*
Research Assistant   Hanoi, Vietnam

◦ Developed a machine learning model to quantitatively evaluate the balance disorder patient through the central point of mass.

◦ Designed IoT system to monitor environmental factors in the library.

◦ Developed image processing solution to collect and extract data from balance disorder patients based on image processing algorithm.

◦ Authorship of 2 research papers published on journals.

◦ Advisor: Tran Vu, PhD

EDUCATION

• **Hanoi University of Science and Technology**   *Sep 2016 - Aug 2021*
  Bachelor of Engineering in Electronics and Telecommunications   Hanoi, Vietnam
  ◦ CGPA: 3.62/4.00 (equivalent to 90.5%)

PUBLICATIONS

[1]   Tran Anh Vu, Hoang Quang Huy, **Le Van Tuan**, Pham Thi Viet Huong. (2022). **A novel fast-qualitative balance test method of screening for vestibular disorder patients**. *The Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 25, No. 2

[2]   Tran, Anh Vu and Hoang, Quang Huy and Nguyen, Anh Tu and **Le, Van Tuan** and Le, Viet Khanh and Pham, Thi Viet Huong. (2019). **The models of Relationship Between Center of Gravity of Human and Weight, Height and 3 body's indicators (Chest, Waist and Hip)**. *Journal of Science & Technology technical Universities*

SKILLS

• **Programming Languages:** Python, Matlab, C/C++
• **Software Development:** Git, Docker, Linux
• **Deep Learning & Machine Learning:** PyTorch, NumPy, Pandas, Scikit-Learn, OpenCV
• **Deep Learning Applications:** Image Classification, Image Segmentation, Optical Character Recognition, Key Information Extraction, Relation Extraction, Generative Artificial Intelligence
• **Academic Research:** Conducting Literature Review, Writing Research Proposals, Publications

HONORS AND AWARDS

• **Best employee of the month**   *Aug 2023*
  Samsung SDS
• **Certificate of Excellent Graduate Student**   *Aug 2021*
  Hanoi University of Science and Technology
• **Best Thesis Presentation Award**   *Aug 2021*
  Hanoi University of Science and Technology
• **Certificate of Teaching Assistantship**   *Feb 2021*
  Hanoi University of Science and Technology
• **Top 6 in "Sang tao tre 2019 [Youth Innovation 2019]" – "Smart up for life"**   *Dec 2019*
  Hanoi University of Science and Technology & VNPT
• **Scientific Research Student Award**   *May 2019 & May 2021*
  Hanoi University of Science and Technology

LANGUAGES

• **English:** Fluent (IELTS 6.5)
• **Vietnamese:** Mother-tongue

REFERENCES

1. **Dr. Vu Anh Tran**
   Lecturer, School of Electrical and Electronic Engineering
   Hanoi University of Science and Technology
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   Phone: +84-944-639-471
   Relationship: Project Supervisor

2. **Dr. Soan Thi Minh Duong**
   Lecturer, Department of Computer Science
   Le Quy Don Technical University
   Email: soanduong@lqdtu.edu.vn
   Phone: +84-983-588-613
   Relationship: Mentor, Advisor