LE HOANG VU

AI ENGINEER

CONTACT

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https://github.com/vuniem131104

Dich Vong Hau, Cau Giay, Ha Noi

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, Javascipt
- **Machine Learning & Deep Learning:** PyTorch, TensorFlow, Scikit-Learn, XGBoost, Pandas, Numpy
- **Computer Vision:** Detectron2, OpenCV, Ultralytics, Transformers
- **Big Data & MLOps:** Spark, MLflow
- **Database:** MySQL, PostgreSQL, MongoDB
- **Vector Database:** Milvus, Qdrant
- **Deployment:** FastAPI, Docker, AWS

OTHER SKILLS

- Math and Probability & Statistics
- English Communication
- Reading AI Papers
- Microsoft Office
- Creative, Problem-Solving

CERTIFICATES

- **Computer Vision Masterclass** https://imgur.com/a/o2Mboa2
- **PyTorch for Deep Learning Bootcamp** https://imgur.com/a/tLfO1d1

OBJECTIVE

- Seeking an AI internship position to enhance personal proficiency and learn a business aspects of running a software in a company
- Become a professional AI Engineer

EDUCATION

University of Engineering & Technology (VNU-UET)

Information Technology | September 2022 - now

- Semester: 6/8
- CPA: 3.63

WORKING EXPERIENCE

FINPROS INVESTMENT JOINT STOCK COMPANY

Position: AI Engineer Intern | 28/06/2024 - 28/08/2024

- Developed an AI-powered automated stock trading bot
- Collecting stock market data from major exchanges

PROJECT EXPERIENCE

Anomaly Detection in Complex Indoor Surveillance | Group Work: 6 people (Private Repository)

https://github.com/cuongtv312/anomaly-detection

- **Brief:** A system to detect anomaly in complex environments.
- **Techs:**
  - Libraries such as: Pytorch, Ultralytics, OpenCV, Redis, Supervision, Milvus,...
  - PostgreSQL and Milvus to store data.
- **Main Tasks:**
  - Developed a branch to detect actions from people within video by fine-tuning ActionCLIP
  - Improved performance of YOLO and DeepSORT to detect and track people
  - Used Milvus to store the vector embeddings serving later for detecting abnormal actions

Super Resolution With Pytorch | Group Work: 1 person

https://github.com/vuniem131104/Super-Resolution-With-Pytorch

- **Brief:** The implementation of SRRESNET and SRGAN in super resolution task for blurry images.

- **MACHINE LEARNING MASTER CLASS**
https://imgur.com/a/ml-n4s9kzx

AWARD

- **Student Achievement Awards Summer 2023 | Excellent Student**
- **Student Achievement Awards 2022-2023 | Good Student**
- **Top 10 National High School Exam for A01 Group 2021-2022**
- **First Prize in the Provincial Mathematics Excellent Student Competition | 12th grade of high school**

- **Techs:**
  - Libraries such as: Pytorch, Torchvision,...
  - GANs instead of traditional CNN
- **Main Tasks:**
  - Designed and optimized deep learning models to enhance image quality
  - Preprocessed datasets and trained models using PyTorch
  - Evaluated model performance using PSNR and SSIM metrics.

Image Retrieval | Group Work: 1 person

https://github.com/vuniem1311104/Image-Retrieval

- **Brief:** An app to retrieve similar images from the given image and text from users
- **Techs:**
  - Libraries such as: Pytorch, Streamlit, ...
  - LLM to rerank images reasonably
- **Main Tasks:**
  - Used pretrained models to store vector embeddings from images into Milvus Vector Database
  - Used Streamlit to build interface
  - Designed a prompt for LLM to rerank visual images into a valid list to display on the app