DO TRAN DANG KHOA

CONTACT

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AWARDS

- Third prize on The Spring 2025 Scientific Research Competition
-70% FPTU1000 scholarship.
- Consolation prize on Vietnam s Physics Olympiad (VPhO)

EDUCATION

FPT UNIVERSITY
SEP 2023-PRESENT
Major in Artificial Intelligence

LE QUY DON HIGH SCHOOL FOR THE GIFTED
 AUG 2020– AUG 2023
Specialized in Physics | GPA 3.7/4.0

CERTIFICATE

-Supervised Machine Learning
-Advanced Learning Algorithms
-Unsupervised Learning, Recommenders, Reinforcement Learning
(Deeplearning.ai-Cousera)
- DevOps on AWS Specialization (Cousera)

OBJECTIVE

Leverage my strong background in AI research to explore new challenges in applied AI engineering. I aim to contribute to the development and deployment of practical AI solutions by integrating intelligent models into embedded systems, cloud platforms, and web/mobile applications. My goal is to bridge the gap between cutting-edge AI research and real-world implementation—especially in systems involving IoT, edge computing, and full-stack AI solutions.

SKILLS

- Programming Language: Python, C++, JavaScript , SQL
- Libraries: Scikit-learn, Tensorflow, Pytorch , NodeJS , Flask
- DevOps: Docker
- Version control: Git
- AI: machine learning , deep learning , computer vision

EXPERIENCE

MULTIMODAL XAI WEB FOR MEDICAL IMAGING (Apr 2025 –Present)
- Role: Lead Developer
- Technologies: TensorFlow, Keras, CNN,XAI ,Flask Docker .
- Developed a multimodal AI system integrating medical images and clinical text .
- Handled full pipeline: data preprocessing, model training, evaluation, deployment, and UI integration.
- Built a complete system connecting AI inference with user-facing web interface and modular Flask back-end.
- Applied Docker for environment isolation and model deployment readiness.

HAND SIGN RECOGNITION WITH GRAPH NEURAL NETWORKS (Mar 2025 – Present)
- Role: Research Member , Leader
- Lab: AI Technology and Application Research Lab
- Technology: PyTorch, MediaPipe, OpenCV, GNN, CNN, Multimodal Fusion
- Extracting hand landmarks and gesture dynamics from video streams using MediaPipe and OpenCV for spatial-temporal analysis.
- Designing a hybrid architecture combining CNNs for visual context and GNNs for topological modeling to improved gesture classification.

TRANSFER LEARNING WITH MODERN VISION MODELS FOR MEDICAL IMAGE CLASSIFICATION (Jan 2025 – Mar 2025)
- Role: Leader Research Project
- Technology: PyTorch, Scikit-learn, Google Colab
- Investigated the application of pre-trained CNN and Transformer-based architectures (ResNet, DenseNet, ConvNeXt, ViT) to medical image classification tasks.
- Fine-tuned models on small-scale, domain-specific datasets (CT scans, histopathology, MRI) using transfer learning with ImageNet weights.