



Nguyễn Đức Trọng

BE engineer (Python)/ AI Engineer internship

Semper Paratus

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Education

FPT University - HCM Campus

Bachelor of IT - Artificial Intelligence

Oct 2020 - June 2025 (Full time)

GPA: 8.7/10 (3.48/4)

Languages

Vietnamese: native

English: IELTS 6.0 (Exp. 10/2024)

Skill set

1/ Programming languages

Python, Java, Latex, Lua.

2/ Databases

TSQL

3/ Frameworks and Libraries

Pytorch, Keras, Huggingface, TensorFlow, Cupy, Scipy, OpenCV, Numpy, FastAPI, gradio, ffmpeg

4/ Others

Docker, Linux (Ubuntu), Git, Vercel, Cloud (EC2), Jira, Microsoft Project, Jenkins, ORM (JPA)

Certificates

1/ Coursera organizer

Tensorflow Developer, Natural Language Processing, Academic Writing, Project Management, Deep Learning IBM introduction to ML Software Development Lifecycle

2/ Hackerrank organizer

Basic Python, Basic SQL, Intermediate SQL

Extracurriculars

1/ Spring Volunteer Campaign

Joined as a participant in Lễ Tâm Club (USSH) and having an online fundraising campaign during COVID-19 pandemic outbreak from 01/01/2022 to 20/02/2022.

Experience

Face attribute

Internship at Quy Nhơn AI

01/01/2024 - 26/04/2024

Role: Model developer & annotator.

Description: Infer age, gender based on extracted face features from deep learning models.

Task: Label image data with a simple self-implemented CLI tool and implement train/ test pipeline for gender classification task.

Result: Achieved from 0.7 to 0.8 on F1 score on test set.

Technologies: Pytorch, OpenCV, Docker.

Projects

Anomalous Human Activity Detection By Weakly Supervised Learning

Bachelor capstone project

01/01/2025 - 15/05/2025

Description: An powerful AI model that learns to spot **unusual human behaviors** in surveillance CCTV system.

Impact: Reduce intensive human annotating and be a preliminary step for develop smart city.

Result: Best teacher model is with 0.4059 val loss and 0.6621 AUC, and student model is with 472.509 val loss.

Future development: Extend experimentation to other kinds of learning, integrate more third-party services for serving other MLOPs principles.

Technologies: Pytorch, Docker, lakeFS, mlflow, ffmpeg, Microsoft Project, multiprocessing.

Cursor Controlling with Hand Gestures

Personal project

Status: Refactoring (15/06/2023 - present)

Description: A simple app that utilizes a pretrained handlandmark detector of MediaPipe Solution to perform several pre-defined actions such as mouse hovering, volume control, tab transition, and so on.

Technologies: OpenCV, MediaPipe Solutions, Async handling.

Extracurriculars

Spring Volunteer Campaign

Lễ Tâm Club (USSH)

01/01/2022 - 20/02/2022

Participated in online fundraising campaign during COVID-19 pandemic outbreak period in Ho Chi Minh city, and the funded money was donated to the Thiên Ân Elderly Care Center at Thu Duc city.

Accreditations

Top 10 outstanding graduates

FPT University - HCM campus

14/10/2025

Being recognized as a member of top 10 outstanding AI-specialized graduates in the year of 2025.