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 Lửa Tâm Club (USSH) and having an online fundraising campaign during COVID-19 pandemic outbreak from 01/01/2022 to 20/02/2022.

Expertise

- Experience in research, plan, design and implement a comprehensive AI solution from scratch, mostly CV-related projects.
- Skilled in data processing, model training, evaluating, & deployment.

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 Controling 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.

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.