

Nguyễn Đức Trọng

AI engineer



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Education -

FPT University (FPTU)

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)

Programming Languages -

Python, Latex.

Databases -

TSQL

Frameworks & Libraries —

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

Others -

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

Certificates -

Coursera organizer

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

Hackerrank organizer

Basic Python, Basic SQL, Intermediate SQL

Pastimes -

Coding, Reading, Listening to music, Traveling, Studying language

Experience

Face attribute

Internship at Quy Nhơn AI

Spring 2024

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Role: Developer, Data labeler.

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.

 ${\bf Skill\ set} \hbox{:}\ {\bf Python,\ Pytorch,\ OpenCV,\ Docker,\ Jenkins}.$

Projects

Anomalous Human Activity Detection By Weakly Supervised Learning Bachelor capstone project Spring 2025

Description:

- Scheduled and managed all activities of a five-person team from research to execution.
- Applied knowledge distillation technique to optimize model parameters but maintaining credibility of predicted result.
- Employed MLOps practice (4/9 principles) with the assistance of third-party services, namely lakeFS, mlflow, and Github, into solution pipeline to mitigate technical debt phenomenon.
- Self-hosted data server for orchestrating gathered data, which served as a part of practicing MLOps.

Impact: Reduce intensive human annotating and be a preliminary step for build smart city down the road.

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

Skill set: Python, Pytorch, Docker, lakeFS, mlflow, Huggingface, Bash, ffmpeg, Microsoft Project.

Fashion AI (FAI)

Entrepreneurial project
Fall 2024

${\bf Description:}$

- Coordinated and reconciled all activities of an interdisciplinary eight-person team from conceptualizing to market launch.
- Implemented virtual try-on pipeline (VTON) and API for communicating with .Net back-end.
- Handling tremendous stable diffusion pipeline inference with disk offloading approach.

Impact: Support buyers' decision with generative AI technology which creates realistic images of their worn clothes.

Skill set: Python, Pytorch, Docker, Huggingface, OpenCV, ONNX.

Cursor Controling with Hand Gestures

Personal project

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, etc.

Skill set: Python, OpenCV, MediaPipe Solutions, Async handling.

$\{ { m Extracurricular \ Activities} \}$

Spring Volunteer Campaign

Lửa Tâm Club (USSH)
———— Spring 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.