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Tran Quang Duc

AI Engineer

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Go-getter, passionate about technology, and innovation. Eager to utilize my technical skills to combine with AI/ML domain knowledge and create practical products for the real world.

SKILLS

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|-------------------------------|--|
| Programming Languages | Python, C, Java |
| Framework | Pytorch, JAX, FastAPI, Flask |
| Deep Learning | Object detection, Multimodal, Speech synthesis, Generative model, Large Language Model |
| Database and Visualize | SQL, MongoDB, Matplotlib, Seaborn |

TECHNICAL EXPERIENCE

Alphii AI - Data scientist 03/2023 — present

- **Project:** Demand Forecasting for Fashion Products
- **Technologies:** Transformer, Multimodal, Data Transformation, FastAPI, Docker.
- **Responsibilities:**
 - Collected, cleaned and transformed trending data from google that improved data quality.
 - Designed and developed a predictive model that improved sales forecasting accuracy by 10% compared to state-of-the-art model and that can short observation new product forecasting without historical data.
- **Project:** Virtual model generation
- **Technologies:** Stable diffusion, Controlnet, Inpainting, Image processing, Image Segmentation, Human Pose Estimation, FastAPI.
- **Responsibilities:**
 - Developed and combined AI algorithms to generate a model from a mannequin or a human model image, reducing resource usage by 34% compared to SDXL.
 - Implemented data gathering and fine-tuning techniques that improved image quality by 15% in human evaluation.

Institute of Technology Development, Media and Community Assistance (IMC) - AI engineer 03/2023 — 08/2023

- **Project:** Telegram chatbot story teller
- **Technologies:** HiFi-GAN, Stable Diffusion, LoRA, Model Quantization, Scrapy, Flask.
- **Responsibilities:**
 - Developed and maintained AI-based applications that Create story video from online URL and documents file.
 - Researched and analyzed 8 newest paper for improve voice and image in video.
 - Deployed telegram bot on Virtual Private Server

SPRING AI JOIN STOCK COMPANY - Intern AI Engineer 08/2022 — 12/2022

- **Project:** Virtual idol on social media
- **Technologies:** Stable diffusion, Quantization, Distilled Model, FastAPI.
- **Responsibilities:**
 - Developed and implemented AI algorithms and models to change fashion of visual idol by virtual try-on, resulting in a 13% speed improvement compared to base model.
 - Researched and Fine-tuned model follow the fashion topics.

PERSONAL PROJECT

Road Damage Detection and Application on Mobile 5/2022 — 07/2022

Course Project/FPT University

- Pre-processing data and collected extra data for training and evaluation.
- Applied new algorithms on Object Detection, resolve data imbalance for dataset.
- Deployed real-time road damage detection model on mobile with 22 fps.

EDUCATION

Bachelor of Artificial Intelligent, FPT University 2019 — 2023

GPA: 3.36/4.00

ACTIVITIES

- I worked as AI Reseach Assistants at FPT Innovation Lab from 05/2021 to 03/2022 and I am co-author of a publication at ICSCA/ACM Conference : <https://dl.acm.org/doi/10.1145/3587828.3587851>
- My project was shared on DataScienceWorld.Kan page which has 15K followers. Post: : <https://anotepad.com/notes/23hmadfc>