PHAM QUOC ANH

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EDUCATION

ITMO University, Russia Expected 2025
Bachelor of Robotics and Artificial Intelligence

- CPA: 4.4/5
- Relevant Courses: Machine Learning, Artificial Intelligence, Applied Statistics, Data Structures and Algorithms, Calculus, Linear Algebra.

EXPERIENCE

ZenAI October 2023 - present
AI Engineer

- Fields: Computer Vision (CV), Stable Diffusion (SD), Text-to-Image, Image-to-Video.
- Working on BranditScan and Astria customers focusing on personalized generation of professional human images.
- Optimized inference time by 60% by applying compiled techniques, and achieved a high level of photorealism in generated images by employing several models and refining methods.

VietAI Jan 2023 - present
Research Collaborator

- Fields: Audio processing, Automatic Speech Recognition (ASR), Natural Language Processing (NLP)
- Collected and processed Vietnamese speech datasets for finetuning OpenAI Whisper ASR model.
- Improved model accuracy through iterative training and hyperparameter tuning, utilizing cloud TPUs.

Myla Homestay June 2023 - November 2023
AI Intern

- Fields: Natural Language Processing (NLP).
- Developed a customer support chatbot pipeline that answered customer inquiries quickly and accurately (DIP).
- Enhanced customer service by integrating Google Maps API, improving user experience and service delivery.

SKILLS

Math, Basic Science: Calculus, Algebra, Probability, Statistics.
Industrial Core: Object-Oriented Programming, Machine Learning Operations, Computer Vision (CV), Natural Language Processing (NLP).
Programming: Python, Java, C, Latex.
Libraries and Tools: Pytorch, Huggingface, Diffusers, Django, Flask, Scikit-learn, Numpy, Pandas, Scipy, Seaborn, Matplotlib.
Languages: English, Russian, Vietnamese (native speaker).
Online courses: MLOps Duke University, VietAI Advances in Natural Language Processing, VietAI Foundation of Deep Learning, Nvidia Diffusion Crash Course, Cloud Computing Foundation Duke University.

ACADEMIC PROJECTS

Bud500: A Comprehensive Vietnamese ASR Dataset (Github) March 2024

- Created Bud500, the largest public Vietnamese speech corpus with 500h quality audio, to support the ASR research community, covering a vast array of topics and accents across Vietnam.

Magic Animate Modified (Github) November 2023

- Modified Magic Animate, a diffusion-based human image animation framework.
- Achieved higher video output quality and consistency, by implementing a multicontrolnet architecture.

Echoes Social Media App (Github) (Demo video) June 2023

- Developed a web application using Django, HTML/CSS/JavaScript, utilized OpenAI's API and pretrained NLP models for personality detection, mental illness detection, and sentiment analysis.

Captionize-it app (Github) May 2023

- Implemented an image captioning system using PyTorch and Flask, providing a web interface for generating descriptive captions for images through a deep learning encoder-decoder model.

HONORS AND AWARDS

- Second Prize at SoICT Hackathon (Samsung track - AI powered apps) October 2023
- Third Prize at SoICT Hackathon (Naver track - Spoken Language Understanding - SLU) October 2023
- Second Prize at Swin Hackathon September 2023
- Merit Award winner at Hong Kong PolyHack (AI track) June 2023
- Mentee of MaSSP – Math and Science Summer Program Summer 2021
- Participant of International Intellectual competition "Future Leaders of Eurasia", Russia Winter 2019
- Participant of Hanoi Open Mathematics Competition (HOMC) Summer 2019
- Participant of Hanoi Mathematical Contest in modeling Summer 2018