Phan Minh Nhật

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ABOUT ME

Driven by a passion for harnessing data and algorithms, I am eager to apply my expertise in machine learning and deep learning to create impactful solutions. Seeking an internship to bridge the gap between academia and industry, I am keen to contribute to real-world projects and expand my knowledge under the guidance of experienced professionals in machine learning and deep learning.

SKILLS

Programming Languages

- Python
- R
- C/C++
- Java
- C#
- Matlab

Data Analysis

- Data Visualation: Proficient in data visualization using R, Seaborn and Matplotlib
- Data Processing: Proficient in handling image, text, audio, video, and time-series data

Soft Skills

- Communication: effective verbal communication and attentive listening skills
- Teamwork: effectively collaborate with others, specially in technology projects
- Presentation: enable to explain things clearly
- Time Management: can manage time effectively
- Observation: can observe and respond effectively to different situations.

EDUCATION

BACHELOR'S DEGREE INFORMATION TECHNOLOGY

DA NANG UNIVERSITY OF TECHNOLOGY AND EDUCATION Sep 2021 - Present

- Relevant coursework includes Artificial Intelligence, Data Science, Neural Networks, Data Structures, and other related subjects.
- Two-semester Scholarship for Outstanding Students
- GPA: 3.78

RESEARCH PROJECTS

WOOD SPECIES IDENTIFICATION BASED ON SYNTHESIS OF DEEP LEARNING MODELS

Jan 2023 - Oct 2023

- Collect and synthesize a macroscopic image dataset of wood
- Develop deep learning models to classify wood species using macroscopic images

NEAR-INFRARED SPECTROSCOPY

Oct 2023 - Present

- Develop an ensemble model to predict substance concentration in sample (fertilize, milk, fruit, ...) using near-infrared spectroscopy
- Develop deep learning models for regression/classification task using near-infrared spectroscopy
- Develop a machine learning algorithm to identify the wavelength of maximum absorption for a substance

CERTIFICATES

IELTS - 7.5

Microsoft Office Specialist certificate

Participation in Scientific Research

Participation in CONFERENCE ON INFORMATION TECHNOLOGY AND ITS APPLICATIONS

LANGUAGES

ENGLISH

Proficient in spoken and written English

ENHANCED ATTENTION-BASED MULTIMODAL DEEP LEARNING FOR PRODUCT CATEGORIZATION ON E-COMMERCE PLATFORM Jan 2024 - Jul 2024

- Develop a multimodal deep learning model capable of classifying 16 different product categories, providing a comprehensive solution to the challenges posed in managing large numbers of products on e-commerce platforms

IMAGE RECONSTRUCTION AND DENOISING Jan 2024 - Present

- Develop a deep learning model based on UNet architecture using ConvNeXt block, attention mechanism, and channel enhancement module for CT image reconstruction from sparse-view sinogram
- Develop a deep learning model employing three complementary networks to extract cross-level feature interaction, MLP variants to enhance feature representation for image denosing

SUPPORTING DEVICE FOR ENGLISH-VIETNAMESE COMMUNICATION Feb 2024 - Jun 2024

- Implement Transformer for machine translation and Whisper for speech recognition
- Modify the Transformer Encoder using Conditional Random Fields to reduce the number of parameters, accelerate computation, and maintain accuracy.
- Build a system and device supporting communication in real world

BREAST CANCER DETECTION USING MAMMOGRAPHY Feb 2024 - Jun 2024

- Build a pipeline to localize breast tissue regions within images, cancer diagnosis, tumor detection, and tumor description
- Develop deep learning model for image recognition, image classification, and image captioning in mammography field

OPTIMIZATION POWER USE May 2024 - Jun 2024

- Develop a three-stage ensemble model to predict power demand and generation two days in advance across four locations

PRIZES AND AWARDS

1ST PRIZE OPTIMIZATION POWER USE IN DEVDAY2024

First prize awarded for the creation and presentation of an effective method for forecasting time-series data Jun 2024
By TAS Design Group

2ND PRIZE U-INVENT 2020

Second prize awarded for technological innovation for the environment Jul 2020
By Vietnam-UK Institute for Research and Training