Pham Dinh Dat

Nam Tu Liem, Hanoi | 0367186135 | datolg123@gmail.com | Github: https://github.com/phamdinhdat-ai

WORK EXPERIENCE

SSA Lab - Phenikaa University **Hanoi**
Research Student *February 2023 - Present*

- Engaged in various projects: *Researching and developing autonomous solutions using respiratory rate accelerometer sensor technology, Computer Vision, Automated Vehicles, etc.*
- Worked closely with the AI team to develop and optimize machine learning algorithms that leverage the data.
- Research and apply visual documentation question-answering using LLMs(NLP) on microcontroller datasheet extraction
- Deeply research and develop new methods in Federated Learning to apply smart healthcare systems.
- Research and implement LLMs for chatbot

Phenikaa - X **Hanoi**
AI Internship *March 2022 - January 2023*

- Collaborated with development team including robotics experts, software engineer,... in 2 projects: *3D Object detection: LiDAR and Camera Fusion,* and *Apply Semantic Segmentation Model on Car AutoParking system*
- Applied state-of-the-art semantic segmentation models, and developed algorithms that can understand and categorize different environmental elements, such as roads, obstacles, pedestrians, and other critical objects.

EDUCATION

Phenikaa University **Hanoi**
Robot and Artificial Intelligence *2020 - 2024*
GPA: 3.26

AWARDS

Third Prize in College-Level Science Research Student Competition *2023*
First Prize in Faculty-Level Scientific Research Student Competition 2023

SKILLS & CERTIFICATES

Skills:

- AI researching
- Proficient in Python
- Familiar with Kubernetes, Dockers, Airflow, FastAPI
- Knowledge of artificial intelligence (ML, NLP, LLMs, Reinforcement Learning, Federated Learning)

Certificates:
Global Project-Based Learning – 2023(VietNam), Autonomous Vehicle Training Program – HUST x PRATI(Phenikaa University) 2021

PUBLICATIONS

Human sleep position classification using a lightweight model and acceleration data **-** *Hoang-Dieu Vu, Duc-Nghia Tran, Huy-Hieu Pham,* ***Dinh-Dat Pham,*** *Khanh-Ly Can, To-Hieu Dao, Duc-Tan Tran (2025 SCIE journal Q1: Sleep and Breathing)*

Enhancing sleep postures classification by incorporating acceleration sensor and LSTM model - Hoang Dieu Vu, Duc Nghia Tran, Khanh Ly Can, To Hieu Dao, **Dinh Dat Pham,** and Duc Tan Tran (IEEE SSP-2023)

Predicting Respiration Rate using Acceleration Sensors and LSTM: A Novel Approach - Hoang Dieu Vu, Duc Nghia Tran, Khanh Ly Can, Dao Hieu, **Dinh Dat Pham**, Hieu Le, Pham Quang Tu and Duc Tan Tran (ICCAIS - 2023)

Monitor Respiration Rate and Sleep Position Using Multi-task Learning - Vu Hoang-Dieu, LeDinh-Hieu, Can Khanh-Ly, Dao-To, Hieu, **Pham Dinh-Dat,** Nguyen Sy-Hiep, Nguyen Ha-My, Tran Duc-Nghia.