

Manh-Cuong Phan

NLP Researcher

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 Hung Yen, Viet Nam

OBJECTIVE

NLP Researcher with expertise in natural language understanding, text generation, and deep learning-based language models. I have hands-on experience in applying machine learning and transformer-based architectures for tasks such as text classification, summarization, dialogue systems, and cognitive bias detection. My goal is to advance research and development in natural language processing by combining state-of-the-art models with practical applications, contributing to both academic and industrial innovation.

WORK EXPERIENCE

AI Academy VN

06/2025 - Present

NLP Intern

- Contributed to digital transformation projects for government ministries and agencies.
- Developed natural language processing (NLP) solutions for Vietnamese, including text classification, information extraction, and document summarization.
- Built data processing pipelines (preprocessing, annotation, cleaning) to support large-scale machine learning and deep learning models.
- Applied transformer-based models (BERT, mBERT, PhoBERT, mT5, LLaMA) to automate the analysis and management of administrative documents.
- Collaborated with domain experts and deployment teams to ensure practicality, security, and scalability of AI solutions.
- Achievement: Contributed to the development of an NLP system that supports search, classification, and summarization of administrative documents, reducing information retrieval time and improving work efficiency for government officers.

Nature Language Understanding Lab

2024 - Present

Research Assistant / NLP Researcher

- Conducted research on natural language understanding (NLU) and generation (NLG) with a focus on multilingual and low-resource languages.
- Fine-tuned and evaluated transformer-based models (BERT, mBART, T5, LLaMA) for various NLP tasks such as summarization, sentiment analysis, and question answering.
- Developed methods for multi-document summarization in Vietnamese, applying “chunking-then-summarize-then-merge” strategies to handle long input texts.
- Investigated bias and fairness in language models, focusing on sociocultural contexts in Vietnamese.
- Collaborated with a cross-functional team to integrate NLP models into real-world applications such as educational tools and healthcare assistants.
- Authored and co-authored academic papers, presenting results at local and international conferences.

PROJECTS

Research on Machine Learning Models for Document Management – Ministry of Agriculture and Rural Development

2025 - Present

Member

- Developed and evaluated machine learning models for automating document classification, routing, and information retrieval in administrative workflows.
- Built NLP pipelines for Vietnamese text preprocessing, metadata extraction, and semantic search.
- Contributed to improving efficiency of official document management by reducing manual workload and supporting digital transformation initiatives.

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Student Feedback Analysis
System using Machine
Learning – Hung Yen
University of Technical
Education
2024 - 2025

- Principal Investigator
- Designed and implemented a machine learning–based system for automatically analyzing student feedback.
 - Applied text classification and sentiment analysis models to evaluate student responses and generate actionable insights.
 - Enhanced efficiency for academic departments by reducing manual review time and improving decision-making in educational management.

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Deep Learning Models for
Atherosclerosis Diagnosis
2024 - 2025

- Principal Investigator
- Researched and developed deep learning architectures (CNNs, ResNet, EfficientNet, Vision Transformers) for medical image analysis.
 - Applied data augmentation and GAN-based techniques to improve robustness on limited SPECT image datasets.
 - Achieved promising results in automatic diagnosis of atherosclerosis, supporting early disease detection and potential clinical applications.

EDUCATION

2022 - present
Bachelor of Engineering in Computer Science
Hung Yen University of Technology and Education
Top 4 IT Students in Academic Year (2022-2025) - GPA: 3.83

PUBLICATIONS

Huu-Loi Le, **Manh-Cuong Pham**, Hajime Hotta, Minh-Tien Nguyen
Multimodal Emotion Recognition in Conversations with Distortion Analysis. **ACI IW 2025**.
Hajime Hotta, Huu-Loi Le, **Manh-Cuong Pham**, Minh-Tien Nguyen
Metamo: Empowering LLMs with Psychological Distortion Detection for Cognition-aware Coaching. **EMNLP Demo 2025**

SKILLS

Machine Learning & Deep Learning

- Supervised and unsupervised models
- Deep neural networks (CNN, RNN, Transformers)
- Proficient in TensorFlow, PyTorch, Scikit-learn

Data Processing & Analysis

- Hands-on with Numpy, Pandas, SQL
- Data cleaning, transformation, and exploratory analysis (EDA)

Algorithms & Data Structures

- Search, sorting, classification algorithms
- Solid knowledge of trees, graphs, queues, stacks

Tools & Platforms

- Version control with **Git/GitHub**
- Containerization with **Docker**

- Documentation and collaboration with **Notion**
- Academic writing and typesetting with **LaTeX**

HONORS & AWARDS

2024

Second Prize, Faculty-Level Scientific Research Competition (2024) – Hung Yen University of Technology and Education (UTEHY)