

Phuong Nguyen

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Objective

Self-motivated, diligent, and passionate Ph.D. candidate with 4.5 years of combined academic and industrial experience, seeking a Machine Learning Engineer position to apply my strong mathematical and programming skills in developing innovative solutions that optimize business processes and enhance customer experience.

Education

New Mexico State University (NMSU) <i>Ph.D. in Computer Science (GPA: 3.96 / 4.00)</i>	Jan 2021 – Expected Dec 2025 <i>Las Cruces, New Mexico</i>
Ho Chi Minh City University of Technology (HCMUT) <i>Bachelor of Engineering, Computer Science, Honors Program (GPA: 7.85 / 10.00)</i>	Sep 2015 – Nov 2019 <i>Ho Chi Minh city, Vietnam</i>

Experience

NMSU Graduate Researcher <i>Las Cruces, New Mexico</i>	Jan 2021 – Expected Dec 2025
<ul style="list-style-type: none">• Detecting anomalies and inconsistencies from multi-view data collection sources by employing the probabilistic graphical models and deep learning methods such as Graph Neural Networks and Transformer-based models.• Possessed two academic research publications as the first author in the area of multi-view data anomaly detection.	
ZaloPay Data Science Intern <i>Ho Chi Minh City, Vietnam</i>	Nov 2018 – Sep 2019
<ul style="list-style-type: none">• Served as the primary engineer to build an API for users' action flow visualization to optimize app UI.• Initiated a machine learning model for customer segmentation. Utilized PySpark framework to allow for client's transaction data analysis. Targeted and established new trust with departing customers via re-engagement programs.	
Techcombank R&D Intern <i>Ha Noi, Vietnam</i>	Jun 2018 – Aug 2018
<ul style="list-style-type: none">• Created a crawling tool for text data collections and organizations from various published media for investment risk management.• Conducted sentiment analysis from collected data through machine learning models such as Neural Networks, SVM, and Random Forest .• Collaborated with cross-functional teams for data export normalization.	

Publications

Phuong Nguyen, Tuan M. V. Le
SeeM: A Shared Latent Variable Model for Unsupervised Multi-View Anomaly Detection.
The 28th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2024), May 7-10, Proceedings.

Phuong Nguyen, Hiep Tran, Tuan M. V. Le
Multi-view Deep Markov Models for Time Series Anomaly Detection.
2023 IEEE International Conference on Big Data (IEEE BigData 2023), December 15-18, Proceedings.

Technical Skills

Languages: Python, C/C++ (basic), Java (basic), Rust (basic), Julia (basic).
Technologies: Pytorch, Tensorflow, Numpy, Pandas, Scikit-learn, Pytorch-lightning, Pytorch Geometric, Matplotlib, Seaborn, Huggingface.
Concepts: Artificial Intelligence, Machine Learning, Deep Learning, Neural Networks, Probabilistic Graphical Models.