

"Complete disorder is impossible." — Theodore S. Motzkin, Israeli-American mathematician, 1908 - 1970

Education Graduated..... University of Science, Viet Nam National University HCM City 12/2023 - present Master of Science student Faculty of Mathematics and Computer Science Major in Applied Mathematics. University of Science, Viet Nam National University HCM City 12/2022 – present Faculty of Information Technology Master of Science student Major in Computer Science. Research topics: Multi-relational graph, Machine learning, Optimization algorithms, Graph theory. Undergraduate..... University of Science, Viet Nam National University HCM City 09/2018 - 09/2022Bachelor of Science degree Faculty of Information Technology Major in Computer Science. Research topics: Knowledge graphs, Machine learning, Graph theory. Thesis title: Link Prediction on Knowledge Graphs based-on Convolutional Neural Networks, Phan Anh-Hao & Le Nhut-Nam **Publications and preprints** Knowledge graph embedding by relational rotation and complex convolution for link prediction. T. Le, N. Le and B. Le, Expert Systems with Applications, 2023, 214, 119122.. arXiv:. o Embedding Model with Attention over Convolution Kernels and Dynamic Mapping Matrix for Link Prediction. T. Le, N. Le and B. Le, Asian Conference on Intelligent Information and Database Systems, 2022, pp. 234–246. arXiv:. Techincal skills Programming experience..... Python, C/C++, Julia, Java, CUDA Machine learning framework. Pytorch, Tensorflow Tool chains..... Git, LATEX, Conda, Docker, Jupyter, Jetbrains

Operating system.....

Arch Linux (on DWM), Ubuntu

Selected projects

A study on graph partition algorithms.

Graph partition is the process of dividing a graph into multiple subgraphs or partition partitions, such that each subgraph is connected and has a certain desirable algorithms property, such as balanced size or minimal cut size. Although it is a challenging problem, finding a partition that makes graph analysis easier has applications in scientific computing. In this project, we provide a Python programming language implementation for a few well-known graph partitioning techniques. Public source code on Github.

Google Al4Code Understand Code.....

Understand in Python notebooks the relationship between code and comments using language models: codebert, graphcodebert and optimization techniques in Python (gradient accumulation, automatic mixed precision training, 8-bit Optimizers - 8- Notebooks bit Adam/AdamW Optimizer and fast tokenizers). Public source code at Github

Selected work experience

Industry internships.

03/2023 - present

DIGIME PTE. LTD: Al Developer Working on digital image-video processing, object detection tasks with YOLO models.

Academic teaching.....

FIT-HCMUS, VNU-HCMC: Visiting Lecturer

09/2022 - present

Was Visiting Lecturer in Faculty of Information Technology, VNUHCMC - University of Science. Instructed in laboratory for Parallel Programming, Graph Mining, Introducion to Data Science, Programming for Data Science, Introduction to Machine Learning, and Data Visualization.

Academic research working.....

DoCS, FIT-HCMUS, VNU-HCMC: Graduated Research Student 01/2023 – present

Advised by Prof. PhD. Le Hoai Bac and MS.c Le Ngoc Thanh on research topic of temporal knowledge graphs completion.

DoCS, FIT-HCMUS, VNU-HCMC: Undergraduated Research Student

06/2021 - 07/2022

Advised by MS.c Le Ngoc Thanh on research topic of link prediction on knowledge graphs.

More.....

HUST: Modern Machine Learning: Foundations and Applications 11/09/2023 – 15/09/2023

Was participant in Summer school of Modern Machine Learning: Foundations and Applications – MML hosted by HaNoi University of science and technology, VINBIGDATA, and NAVER

VMC: 10th Vietnam Mathematical Congression 2023

08/08/2023 - 12/08/2023

Was **participant** in 10th Vietnam Mathematical Congression 2023.

Miscellanea

- Vietnamese: Native speaker
- English: Intermediate level (5.5 Overall IELTS); written in English, publications and presentations are in English.