Hoang Pham Van

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Education

Hanoi University of Science and Technology **Bachelor**
Computer Science 2016 - 2021
GPA: 3.33/4.0

Working Experience

Rikkei AI
AI Engineer March 2021 - May 2021
- Building segmentation module to segment the ID card region.
- Building detection module to detect four corners of the ID card.

Research Experience

Research Interests My current works focus on Sparse Neural Network, Continual Learning, and Meta Learning with the ultimate goal that creating AI model having the learning abilities like human (rapid and continuous learning tasks without catastrophic forgetting). In particular, I am investigating brain-inspired Continual Learning model which different network's components take into account different tasks.

Research Intern at University of Warwick Nov 2022 - Dec 2022
I work on Understanding Pruning at Initialization project supervised by Prof. Long Tran-Thanh.

AI Lab - FPT Software (Website: `https://ai.fpt-software.com/ai-residency/`) May 2021 - now
AI Residency: Working with global researchers to publish papers at international conferences.
Topics are interested in:
- Learning paradigms: Continual Learning, Meta-Learning, Transfer Learning etc.,
- HyperNetwork.
- Recommendation System.
- Sparse Neural Networks.

Data Science Lab - SoICT (Website: `http://ds.soict.hust.edu.vn/`) June 2019 - June 2021
Student Research Assistant: Learn and gain knowledge about machine learning, making research on continual learning and topic model.
- Topic Models.
- Continual Learning.
- Self-supervised Learning.

Publication

** indicates equal contribution*

1. **Hoang Pham**, Anh Ta-The, Shiwei Liu, Dung D. Le, Long Tran-Thanh "Understanding Pruning at Initialization: An Effective Node-Path Balancing Perspective" (preprint). 2022
2. **Hoang Pham***, Tuc Van Nguyen*, Anh Ta-The, Dung D. Le, Long Tran-Thanh "Pruning deep equilibrium models". (accepted at Sparse Neural Networks ICML 2022 workshop). 2022
3. **Hoang Pham**, Quang Pham, Anh Ta-The, Dung D. Le "HyperSparse: Specializing Parameters of Meta-Learning Models for Effective User Cold-Start Recommendation". (preprint). 2022
4. Ha Nguyen*, **Hoang Pham***, Son Nguyen, Linh Ngo Van, Khoat Than "Adaptive infinite dropout for noisy and sparse data streams". Machine Learning. 2022
5. Linh Ngo Van*, Nam Le Hai*, **Hoang Pham***, Khoat Than "Auxiliary Local Variables for Improving Regularization/Prior Approach in Continual Learning". PAKDD. 2022

Achievements and Awards

Third prize, student awards for scientific research in school of Information and Community Technology, SoICT - HUST. 2020

Scholarship for students with good academic records, SoICT - HUST. 2016

Other Activities

1. Machine Learning/Deep Learning course — Nov 2018 - Jan 2019
   Join as trainee.
2. Reading group - DataScience Lab — 2020
   Reading and mining some problems of Deep Generative Models for Images Generation.
3. Reading group - DataScience Lab — 2020
   Reading and mining the problems of applying machine learning in continual learning.
4. Member of Meet AI mate group — 2021
   Reading and representing some basic problems inside Machine Learning.

Courses and Skills

1) Joined online coursed:

- Linear Algebra (MIT).
- Multivariable Calculus (MIT).
- Convex Optimization (CMU, Princeton).
- Probability & Statistics (MIT, Standford).
- Machine Learning (Coursera).

2) Programming skills:

- Advanced: Python, Latex, and other Python library such as Numpy, Pandas, Matplotlib, Pytorch.
- OS: Linux/ Window.