Anh T. Nguyen

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Overview

I am a Ph.D. Student in Computer Science at University of Illinois Chicago. My research focus has primarily been on domain adaptation with applications to computer vision. Broadly speaking, my focus lies in developing machine learning models capable of adapting and generalizing efficiently across diverse domains, enhancing their practical applicability in real-world scenarios.

Education

2024 - Present Ph.D. in Computer Science at **University of Illinois Chicago**
Advisor: Bing Liu

2016 - 2021 B.Sc in Computer Science at **Hanoi University of Science and Technology**
GPA: 3.63/4.0, Top: 1%, graduated with Excellent Degree.
Thesis: A Variational Information Bottleneck Method for Network Intrusion Detection.

Experience

VinAI Research Mar 2022 - Mar 2024
AI Engineer

- Implemented state-of-the-art speculative decoding methods for efficient LLM inference on edge devices.
- Trained and evaluated speculative decoding methods, using a variety of metrics to assess their accuracy, efficiency, and robustness.

VinAI Research Mar 2022 - Mar 2024
AI Research Resident

- Research topics: Domain Adaptation, Domain Generalization
- Conducted research on domain generalization and domain adaptation with generalized target shift.

CyStack Security Sep 2018 - Dec 2019
Security Research Intern

- Conducted web penetration testing for enterprise clients
- Developed vulnerability scanning plugins for web application security scanner.
- Discovered security vulnerabilities CVE-2019-13488, CVE-2019-13489 and CVE-2019-11449 in open-source software.

Publications

Nguyen, Anh T, L. Tran, et al. (2025). "CASUAL: Conditional Support Alignment for Domain Adaptation with Label Shift". In: *Proceedings of the AAAI Conference on Artificial Intelligence*.

Thieu, V. V., **Nguyen, Anh T**, and T. H. Hai (2022). "A Variational Information Bottleneck Method for Network Intrusion Detection". In: *Journal of Communications*. Vol. 17, pp. 933–940.

Nguyen, Anh T, V. D. Minh, T. H. Hai, et al. (2021). "BKIDset-A New Intrusion Detection Dataset To Mitigate The Class Imbalance Problem". In: *2021 15th International Conference on Advanced Computing and Applications (ACOMP)*. IEEE, pp. 106–111.

Honors and Awards

- **AAAI 2025** Student Travel Award
- **Erasmus+** scholarship for exchange study at Uppsala University
- **Consolation Prize** at ASEAN Student Contest on Information Security Final 2019
- **Third Prize** at Regional Round of ASEAN Student Contest on Information Security 2019
- **Top 20** students with highest scores at 2016 **Vietnam National University Entrance Exam**
- **Silver medal** at Asia-Pacific Mathematical Olympiad for Primary Schools 2010 (APMOPS)
- **Discovered** security vulnerabilities CVE-2019-13488, CVE-2019-13489 and CVE-2019-11449 in open-source software.

Languages

- **Vietnamese:** native
- **English:** IELTS Overall 8.0: 8.5 R, 9.0 L, 7.0 W, 7.0 S

Technical skills

- **DevOps:** Linux, Docker
- **Programming:** Python, Java, C/C++
- **Libraries:** Pytorch, TensorFlow, NumPy, etc.