An La

EDUCATION

2021 - present Ms/PhD (Computer Science) at University of Massachusetts Amherst (GPA: 3.76/4.0)

Advisor: Dr. Hung Le

Selective taken courses: Algorithms with Predictions, Randomized Algorithms, Probabilistic

Graphical Model, Distributed and Operating Systems.

2013 - 2017 Bachelor's Degree at Honors Program, VNU-HCMUS, Vietnam (GPA: 3.57/4.0)

Information Technology, Graduated with distinction.

PUBLICATIONS

La, A., & Le, H. (2024, August). Dynamic Locality Sensitive Orderings in Doubling Metrics. https://arxiv.org/abs/2408.14617.

La, A., & Le, H. (2024, August). New weighted additive spanners. https://arxiv.org/abs/2408.14638.

La, A., Vo, P., & Vu, T. (2019, July). Adaptive Collaborative Filtering for Recommender System. In International Conference on Conceptual Structures (pp. 117-130). Springer, Cham. https://doi.org/10.1007/978-3-030-23182-8_9

Working Experience

2021 - now: Research/Teaching Assistant at Theory CS Group/UMass Amherst

Main research: Data structures for Computational Geometry (Spanners, Locality Sensitive Orderings).

Side projects: Learned Index Structures, Online TSP with Machine Learning advice.

Teaching Assistant: Algorithms for Data Science, Advanced Algorithms

2020 - 2021: Data Scientist at PrimeData.AI, Vietnam

github/anla11/analytic_marketing

Design an automatic framework for Segment Analytics, which enables many marketing applications, including Business Identity and customer-centric features (Behavioural Similarity Search, Customer Journey Tracking, and Customer Engagement Campaign). The main technical approach included Bayesian Machine Learning and Probabilistic Programming.

2017 - 2019: Data Scientist at FPT Telecom, FPT Group, Vietnam github/anla11/adaptive_cf_recsys

Design and deploy a Graph-based model dealing with multiple evaluation metrics for the recommender system of fptplay.vn. The model increased 6% on precision and remained close to the best of previous methods on diversity, coverage and congestion. The balance between these metrics is tunable by parameters.

SKILLS

Theoretical skills Data Structure Design, Algorithmic Analysis, Statistics and Probability.

Programming skills Machine Learning (Tensor Flow, PyTorch, Scikit-Learn), Data Analysis and Visualization

(Numpy, Pandas, Seaborn), Image Processing (OpenCV). Efficient in C/C++, Python

Selective Awards

Dec. 2016 National Vietnam award for Outstanding Female Students in Science and Technology

Aug. 2016 Awards from Facebook Hackathon Vietnam 2016

1st prize of Most Innovative Product

2nd prize of Best Product in Facebook Marketing Category

2014 2nd prize in ACM-ICPC Vietnam National 1st Round

2013 3rd prize in Informatics at the Vietnam National Excellent Student Exam