TRI NGUYEN

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github.com/ductri

in tri-nguyen-cs

541 360 9255

OBJECTIVE

A Ph.D. student with the interests in the intersection practical machine learning with theory-driven optimization and estimation looking for internship opportunities in ML/AI domain.

EDUCATION

Ph.D. in Computer Science, Oregon State University — Corvallis, OR, US

2020 - Expected 2025

GPA: 3.85/4

Bachelor of Computer Science, Ho Chi Minh City University of Technology — Vietnam Graduated in Top 10 in CS&EE Department

2012 - 2017

RELATED EXPERIENCE

Graduate Research Assistant

Mar 2020 - Present

Prof. Xiao Fu, Oregon State University,

Corvallis, OR

- Developing a robust preference learning method to finetune LLM with noisy data.
- Tackled the noisy label learning problem in a challenging setting where noisy labels depends on samples.
- Significantly enhanced deep clustering robustness on heavily noisy pairwise annotations by 15% accuracy through a novel volume-based regularizer with identifiability guarantee.
- Drastically reduced memory usage from $O(N^2)$ to O(N) to solve a foundational matrix factorization problem in signal processing and machine learning applications.

AI Engineer

Feb 2017 - Jan 2020

YouNet Group

Ho Chi Minh City, Vietnam

Sentiment Analysis

- Lowered workload of social media research team by 25% via deploying an LSTM-based classification model using a continuous integration pipeline, handling expanding dataset.
- Deployed on-demand scalable sentiment classification APIs on Google Cloud to serve production team.
- Minimized downtime of text crawling system processing GBs of data daily by implementing systematic logging, monitoring, exception handling, and through comprehensive unittests.

Customized Data Retrieval and Aggregation

• Boosted business team's performance by designing and implementing a retrieval app with domain-specific language (DSL) featuring advanced operators such as not, and, or, *.

RESEARCH PUBLICATIONS

- [NeurIPS2024(spotlight)] T. Nguyen, S. Ibrahim, and X. Fu. Noisy Label Learning with Instance-Dependent Outliers: Identifiability via Crowd Wisdom.
- [ICML2023] T. Nguyen, S. Ibrahim, and X. Fu. Deep Clustering with Incomplete Noisy Pairwise Annotations: A Geometric Regularization Approach.
- [ICLR2023] S. Ibrahim, T. Nguyen, and X. Fu. Deep Learning From Crowdsourced Labels: Coupled Cross-Entropy Minimization, Identifiability, and Regularization.
- [TSP2022] T. Nguyen, X. Fu, and R. Wu. Memory-Efficient Convex Optimization for Self-Dictionary Separable Nonnegative Matrix Factorization: A Frank-Wolfe Approach.

SKILLS

- HuggingFace, Lightning, PyTorch, W&B, Ray, TensorFlow, Pandas, NumPy, scikit-learn
- Docker, Git, Tmux, Vim, Python, Matlab, C++, Latex; OOP, design pattern, functional programming

EXTRACURRICULAR ACTIVITIES

- Tutoring at TRIO SSS program as a math tutor at OSU in Fall 2023.
- Joined the OSU badminton club.
- Coding for fun in free time: https://github.com/ductri/BibMan