

Adivya T. Vadlamani

vadlamani.12@osu.edu | linkedin.com/in/adityatv | adityavadlamani.github.io

EDUCATION

The Ohio State University

Columbus, OH

PhD in Computer Science & Engineering

Aug. 2023 – Present

- **Research focus:** Graph Machine Learning and Conformal Prediction

M.S. in Computer Science & Engineering

Jan. 2022 – May 2023

B.S. in Computer Science & Engineering, Mathematics, Magna Cum Laude

Aug. 2018 – May 2022

EXPERIENCE

Machine Learning Engineer Intern

May 2026 – Present

Pinterest

Remote

- Developed a user-sequence-centric variant of the in-house representation learning framework

Software Engineer Intern

May 2025 – Aug. 2025

Google

Sunnyvale, CA

- Designed and implemented a graph neural network model to rank code tests most likely to fail when machine learning libraries are modified across Google's codebase
- Improved prioritization of test execution by leveraging relationships between software components and tests

Software Engineer Intern

May 2023 – Aug. 2023

Cruise LLC

Sunnyvale, CA

- Designed and implemented a prototype encoder model to identify invalid autonomous vehicle simulation scenarios.
- Reduced manual review effort and accelerated software release timelines by automatically filtering low-quality simulation outputs.

Software Development Engineer Intern

May 2022 – Aug. 2022

Amazon Web Services

Cupertino, CA

- Prototyped a scalable AWS environment for functional network verification of routing policies.
- Implemented syntactic validation for routing policy attributes, preventing numeric and regular-expression errors that could otherwise trigger unnecessary router redeployments.

Software Development Engineer Intern

May 2021 – Aug. 2021

Amazon.com

Remote

- Deployed a serverless full-stack web application used by engineers to collect ground-truth data for search services.

RESEARCH EXPERIENCE

Graduate Student Researcher

Aug. 2022 – Present

The Ohio State University

Columbus, OH

- Developed a framework for algorithmically fair conformal prediction and extended it for federated learning.
- Benchmarked and analyzed conformal prediction methods for transductive node classification, identifying practical considerations for uncertainty quantification in GNNs.
- Developed scalable training methods for heterogeneous GNNs using sampling and ensembling techniques.
- Administer and maintain multi-GPU high-performance computing infrastructure supporting large-scale machine learning and data-intensive research workloads.

SELECTED PUBLICATIONS

A Generic Framework for Conformal Fairness, ICLR 2025. Acceptance Rate: 31.75%

Conformal Prediction: A Theoretical Note and Benchmarking Transductive Node Classification in Graphs, TMLR 2025

BLB-HGNN: Bag of Little Bootstraps for Training Heterogeneous GNNs, ICDM 2025. Acceptance Rate: 22.42%

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, SQL, MATLAB, JavaScript

Machine Learning & Data Science: PyTorch, TensorFlow, NumPy, Pandas, scikit-learn

Graph Machine Learning: PyTorch Geometric, DGL, TF-GNN, NetworkX

Big Data & Parallel Computing: Apache Spark, Apache Flume, Ray, SLURM, CUDA

Cloud Platforms & DevOps: AWS, Google Cloud Platform, Terraform, Git

Web Development & Frameworks: Vue.js, React.js, Flask, Express.js