

# Azal Ahmad Khan

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## Education

University of Minnesota, Twin–Cities

September 2024 – Present

Ph.D., Computer Science and Engineering (GPA: 3.9/4.0)

> Advisor: [Dr. Ali Anwar](#)

> Amazon ML Systems Fellow (2025) & GAGE Fellow (2024)

Indian Institute of Technology (IIT), Guwahati

November 2020 – May 2024

B.Tech., Chemical Science and Technology

## Research Experience

University of Minnesota

September 2024 – Present

Graduate Assistant

Advisor: [Dr. Ali Anwar](#)

University of Minnesota

January 2022 – May 2024

Undergraduate Research Intern

Advisor: [Dr. Ali Anwar](#)

University of New South Wales

January 2022 – December 2023

Undergraduate Research Intern

Advisor: [Dr. Rohitash Chandra](#)

## Publications

Under Review **Azal Ahmad Khan\***, Michael Andrev\*, Muhammad Ali Murtaza, Sergio Aguilera, Rui Zhang, Jie Ding, Seth Hutchison, Ali Anwar. *Safety Aware Task Planning via Large Language Models in Robotics*. Under Review.

Under Review **Azal Ahmad Khan\***, Ahmad Faraz Khan\*, Anas Mohamed, Haider Ali, Suchithra Moolinti, Sabaat Haroon, Usman Tahir, Mattia Fazzini, Ali R. Butt, Ali Anwar. *LADs: Leveraging LLMs for AI-Driven DevOps*. Under Review.

Under Review Xinran Wang, Jin Du, **Azal Ahmad Khan**, Qi Le, Enmao Diao, Jiawei Zhou, Jie Ding, Ali Anwar. *Multi-Dimensional Quantile Alignment for Scalable Oversight*. Under Review.

IPDPS '25 Ahmad Faraz Khan, Xinran Wang, Qi Le, **Azal Ahmad Khan**, Haider Ali, Jie Ding, Ali Butt, Ali Anwar. *PI-FL: Personalized and incentivized federated learning*. In Proceedings of the 39th IEEE International Parallel & Distributed Processing Symposium.

EuroSys '24 Ahmad Faraz Khan, **Azal Ahmad Khan**, Ahmed M Abdelmoniem, Samuel Fountain, Ali Butt, Ali Anwar. *FLOAT: Federated Learning Optimizations with Automated Tuning*. In Proceedings of the Nineteenth European Conference on Computer Systems. (*Acceptance Rate: 16%*).

Under Review **Azal Ahmad Khan**, Xinran Wang, Ahmad Faraz Khan, Debanga Raj Neog, and Ali Anwar. *Direct Preference Optimization for Prompt Engineering in Text-to-Image Synthesis*. Under Review.

BigData '24 **Azal Ahmad Khan**, Ahmad Faraz Khan, Haider Ali, Ali Anwar. *Personalized Federated Learning Techniques: Empirical Analysis*. In IEEE International Conference on Big Data 2024 (Short Paper).

BigData '24 **Azal Ahmad Khan**, Sayan Alam, Xinran Wang, Ahmad Faraz Khan, Debanga Raj Neog, and Ali Anwar. *Mitigating Sycophancy in Large Language Models via Direct Preference Optimization*. In IEEE International Conference on Big Data 2024 (Short Paper).

Elsevier **Azal Ahmad Khan**, Omkar Chaudhari, Rohitash Chandra. *A review of ensemble learning and data augmentation models for class imbalanced problems: combination, implementation and evaluation*. Expert Systems with Applications, Volume 244, 122778.

MDPI **Azal Ahmad Khan**, Salman Hussain, Rohitash Chandra. *A Quantum-Inspired Predator–Prey Algorithm for Real-Parameter Optimization*. Algorithms 2024, 17(1), 33.

## Awards & Grants

2025 Recipient of [Amazon Machine Learning System Fellowship](#).

2024 Recipient of [UMN GAGE Fellowship](#) from the Department of CSE, UMN.

2024 Received a travel grant to attend [Google Research Week](#) at Google Research, Bangalore.

2024 Highly Commended Entry (*Top 10%*) at [Global Undergraduate Research Award 2024](#).