

ANUSHKA TIWARI

✉ [Email](#) [in LinkedIn](#) [Github](#)

Summary

PhD student in Data Science specializing in deep learning; interests include continual/lifelong learning, transfer learning, NLP, GNNs, and recommender systems.

Recent work GRID: Scalable Task-Agnostic Prompt-Based Continual Learning for Language Models framework that boosts backward transfer and reduces prompt-pool growth using gradient-driven selection/compression and task-aware decoding on long sequences.

Advised by Prof. Kaiyi Ji.

Education

The State University of New York at Buffalo

PhD in Computational and Data-Enabled Sciences, GPA 3.750/4

Aug 2023 – Present

Buffalo, New York, United States

Indian Institute of Technology Indore

Master of Science in Mathematics, GPA 8.32/10

Aug 2021 – June 2023

Madhya Pradesh, India

ARSD, University of Delhi

Bachelor of Science in Mathematics, GPA 9.216/10

Aug 2018 – June 2021

New Delhi, India

Publications

- **GRID: Scalable Task-Agnostic Prompt-Based Continual Learning for Language Models**
Anushka Tiwari, Sayantan Pal, Rohini K. Srihari, Kaiyi Ji Submitted ICLR 2026
- **Heterogeneous Sequel-Aware Graph Neural Networks for Sequential Learning**
Anushka Tiwari, Haimonti Dutta, Shahrzad Khanizadeh arXiv
- **Content-based Art Recommendation Using Multimodal Graph Neural Networks**
Haimonti Dutta, Anushka Tiwari ICKG 2024
- **Enhancing imbalance learning: A novel slack-factor fuzzy SVM approach**
M Tanveer, Anushka Tiwari, Mushir Akhtar, Chin-Teng Lin IEEE TETCI

Professional Experience

CHISQUARE LABS

Data Science Intern

Kerala, India

June 2024 – August 2024

- Developed an AI-driven patient-review prioritization model that analyzed only ~50% of records yet detected ~90% of Alzheimer's Disease cases, halving workload and improving efficiency, cost, and outcomes.

Technical Skills

Languages: Python, SQL

Libraries/Frameworks: PyTorch, Transformers, Huggingface, NLTK, Numpy, Scikit-learn, Matplotlib, Seaborn, Pandas, Spacy, Deep Graph

Achievements

- Stood at an all India rank of 258 IIT JAM Mathematics exam. IIT JAM.