RISHABH RANJAN

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Education

Doctor of Philosophy (Ph.D.) in Computer Science *2023 – present*
Stanford University, co-advised by Prof. Jure Leskovec and Prof. Carlos Guestrin CGPA 4.00/4
Relevant courses: *Language Models from Scratch, Mining Massive Datasets, Machine Learning with Graphs*

Visiting Research Scholar *2022 – 23*
Carnegie Mellon University, hosted by Prof. Zachary Lipton
Relevant courses: *Philosophical Foundations of Machine Intelligence*

Bachelor of Technology (B.Tech.) in Computer Science and Engineering *2018 – 22*
Indian Institute of Technology Delhi CGPA 9.90/10, **Institute Rank 1**
Relevant courses: *Deep Learning, Natural Language Processing, Machine Learning, Artificial Intelligence, Data Mining, Linear Algebra, Probability and Stochastic Processes, Calculus, Language and Writing Skill*

Awards

- **Amazon Core AI Fellowship** for 2 academic years, by nomination *2025*
- **Certificate of Achievement** for a top leaderboard position in the course "Language Models from Scratch" *2024*
- **School of Engineering Fellowship,** awarded to select first-year PhD students at Stanford *2023*
- **President's Gold Medal** for highest CGPA in the graduating batch at IIT Delhi *2022*
- **Best Undergraduate Thesis Award** in Computer Science at IIT Delhi *2022*
- All India Rank **154** in **Joint Entrance Examination (Advanced)** among 200,000+ qualified candidates *2018*
- **Certificate of Merit** for excellent performance in the **Indian National Mathematical Olympiad** *2017*

Preprints

1. Rishabh Ranjan, Valter Hudovernik, Mark Znidar, Charilaos Kanatsoulis, Roshan Reddy Upendra, Mahmoud Mohammadi, Joe Meyer, Tom Palczewski, Carlos Guestrin, Jure Leskovec. **Relational Transformer: Toward Zero-Shot Foundation Models for Relational Data.** Under review at *International Conference on Learning Representations (ICLR)*, 2026

Publications

(* denotes equal contribution)

1. Rishabh Ranjan, Saurabh Garg, Mrigank Raman, Carlos Guestrin, Zachary Lipton. **Post-Hoc Reversal: Are We Selecting Models Prematurely?** In *Advances in Neural Information Processing Systems (NeurIPS)*, 2024
2. Rishabh Ranjan*, Joshua Robinson*, Weihua Hu*, Kexin Huang*, Jiaqi Han, Alejandro Dobles, Matthias Fey, Jan E. Lenssen, Yiwen Yuan, Zecheng Zhang, Xinwei He, Jure Leskovec. **RelBench: A Benchmark for Deep Learning on Relational Databases.** In *Advances in Neural Information Processing Systems (NeurIPS)*, 2024
3. Matthias Fey*, Weihua Hu*, Kexin Huang*, Jan Eric Lenssen*, Rishabh Ranjan*, Joshua Robinson*, Rex Ying, Jiaxuan You, and Jure Leskovec. **Position: Relational Deep Learning - Graph Representation Learning on Relational Databases.** In *International Conference on Machine Learning (ICML)*, 2024
4. Yatin Nandwani*, Rishabh Ranjan*, Mausam, and Parag Singla. **A solver-free framework for scalable learning in neural ILP architectures.** In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022
5. Rishabh Ranjan, Siddharth Grover, Sourav Medya, Venkatesan Chakaravarthy, Yogish Sabharwal, and Sayan Ranu. **GREED: A neural framework for learning graph distance functions.** In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022
6. Rishabh Ranjan, Ishita Agrawal, and Subodh Sharma. **Exploiting epochs and symmetries in analysing MPI programs.** In *Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2022

Internships

Architecture for Foundation Models on Relational Data. *Jun '25 – Sep '25*
SAP Labs Inc., Palo Alto

Semantic Search in SmartTV via Natural Language Processing *Jun '21 – Aug '21*
Samsung Electronics Co. Ltd., South Korea

Academic Service

Reviewer for ICLR '26, ICML '25, NeurIPS '23, WSDM '23