Kshiteesh Hegde

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Current Position

July 2018 – Present
Western Digital, *Core Analytics Team*, San Jose, CA.
Principal Engineer, Data Engineering

Education

2013 – 2018
Rensselaer Polytechnic Institute, Troy, NY.
PhD – Computer Science

2011 – 2013
University of Minnesota, Minneapolis, MN.
MS – Computer Science

2007 – 2011
Visvesvaraya Technological University, Mysuru, India.
BEng – Electronics & Communication

Experience

Summer 2017
Pacific Northwest National Laboratory, Richland, WA.
PhD Intern – Data Science

Summer 2015
US Army Research Laboratory, Adelphi, MD.
Visiting Student Researcher

2013 – 2018
Rensselaer Polytechnic Institute, Troy, NY.
Graduate Research/Teaching Assistant

2012 – 2013
University of Minnesota, Minneapolis, MN.
Graduate Research Assistant

Publications

2024
Cause and Effect: Can Large Language Models Truly Understand Causality?

S. Ashwani, **K. Hegde**, N. R. Mannuru, M. Jindal, D. S. Sengar, K. C. R. Kathala, D. Banga, V. Jain, A. Chadha

AAAI Fall Symposium – AI Trustworthiness & Risk Assessment for Challenged Contexts

2019
The Intrinsic Scale of Networks is Small

M. Magdon-Ismail and **K. Hegde**

IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)

2019
Network Lens: Node Classification in Topologically Heterogeneous Networks

K. Hegde and M. Magdon-Ismail

arXiv preprint arXiv:1901.09681

2018
Network Signatures from Image Representation of Adjacency Matrices: Deep/Transfer Learning for Subgraph Classification

K. Hegde, M. Magdon-Ismail, R. Ramanathan and B. Thapa

KDD – International Workshop on Mining and Learning with Graphs

2018   *Separating Terrorist-Like Topological Signatures Embedded in Benign Networks*
       K. Hegde and M. Magdon-Ismail
       IEEE Military Communications Conference (MILCOM)

2016   *Recommendations for Streaming Data*
       K. Subbian, C. Aggarwal and **K. Hegde**
       ACM International Conference on Information and Knowledge Management (CIKM)

2016   *Clustering, Prominence and Social Network Analysis on Incomplete Networks*
       K. Hegde, M. Magdon-Ismail, B. Szymanski and K. Kuzmin
       International Workshop on Complex Networks and their Applications

Service

2024   *Session Chair*, ACM Conference on Information and Knowledge Management (CIKM)
2024   *Session Chair*, SIAM International Conference on Data Mining (SDM)
2023   *Session Chair*, IEEE Military Communications Conference (MILCOM)
2023   *Reviewer*, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)
2023   *Reviewer*, Conference on Neural Information Processing Systems (NeurIPS)
2023   *Area Chair*, International Conference on Learning Representations (ICLR)
2023   *Reviewer*, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)
2023   *Reviewer*, ACM Conference on Information and Knowledge Management (CIKM)
2023   *Reviewer*, Conference on Uncertainty in Artificial Intelligence (UAI)
2023   *Reviewer*, IEEE International Joint Conference on Neural Networks (IJCNN)
2023   *Reviewer*, IEEE Transactions on Image Processing
2023   *Reviewer*, Artificial Intelligence for the Earth Systems (AIES)
2022   *Reviewer*, IEEE Transactions on Signal Processing
2017   *Reviewer*, IEEE Transactions on Computational Social Systems
2012   *Student Volunteer*, IEEE International Conference on Robotics and Automation (ICRA)

Invited Talks & Presentations

Nov 2024   *Cause and Effect: Can Large Language Models Truly Understand Causality?*
           AAAI Fall Symposium – AI Trustworthiness & Risk Assessment for Challenged Contexts
           Arlington, VA

Aug 2019   *The Intrinsic Scale of Networks is Small* (Virtual) ([YouTube](#))
           Advances in Social Network Analysis and Mining (ASONAM)
           Vancouver, BC

Oct 2018   *Separating Terrorist-Like Topological Signatures Embedded in Benign Networks*
           IEEE Military Communications Conference (MILCOM)
           Los Angeles, CA

Aug 2018   *Network Signatures from Image Representation of Adjacency Matrices: Deep/Transfer Learning for Subgraph Classification (Virtual)*
           International Workshop on Mining and Learning with Graphs (MLG) at KDD
           London, UK

Oct 2016   *Recommendations for Streaming Data* – Poster
ACM International Conference on Information and Knowledge Management (CIKM)
Indianapolis, IN

Awards

2017   Best Business Insights, Rensselaer Institute for Data Exploration and Applications (IDEA) Datathon, **K. Hegde**, M. Tsikhanovich, G. Samuel and A. Choudhury

2016   Special Interest Group on Information Retrieval (SIGIR) Student Travel Grant (CIKM)

2015   Rotational Program US Army Research Laboratory (ARL)

2015   Appreciation for Service to the Computer Science Department

2015   3rd place, Rensselaer Institute for Data Exploration and Applications (IDEA) Datathon, **K. Hegde** and H. Weideman

Teaching

Fall 2013   *Teaching Assistant*, CSCI 6965 Introduction to Computational Finance

Fall 2014   *Teaching Assistant and Recitation Instructor*, CSCI 2200 Foundations of Computer Science

Varsity

2013-2015   *Team Captain*, Table Tennis, Rensselaer Polytechnic Institute – Troy, NY

2012   *Team Member*, Table Tennis, University of Minnesota – Minneapolis, MN

Research Interests

Machine Learning, Recommender Systems, Network Science, Social Network Analysis, Neural Networks, Natural Language Processing, Large Language Models