

Kshiteesh Hegde

San Jose, CA
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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-Ismael
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-Ismael, 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