Kshiteesh Hegde

San Jose, CA
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Current Position

July 2018 – Present — **Western Digital**, *HDD Product Development*, San Jose, CA.
Machine Learning Scientist

Education

2013 – 2018 — **Rennselaer Polytechnic Institute**, Troy, NY.
PhD – Computer Science | Adviser: Malik Magdon-Ismail

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.
Data Science Intern

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

Publications

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
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

Invited Talks & Presentations

Oct 2018 *Separating Terrorist-Like Topological Signatures Embedded in Benign Networks*

IEEE Military Communications Conference (MILCOM)

Los Angeles, CA

Apr 2018 *Network Lens: Node Classification in Topologically Heterogeneous Networks*

Network Science Collaborative Technology Alliance (NS CTA) Bootcamp

Newark, DE

Oct 2017 *Network Classification Using Deep Network Signatures*

NS CTA Transition Day Poster

Newark, DE

Feb 2017 *Sparse Social Network Analysis: Extracting Clusters and Prominence from Incomplete Networks*

Computer Science Department Poster

Troy, NY

Oct 2016 *Recommendations for Streaming Data*

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

Service

2023 *Technical Program Committee*, Conference on Neural Information Processing Systems (NeurIPS)

2023 *Technical Program Committee*, International Conference on Learning Representations (ICLR)

2023	*Technical Program Committee*, Conference on Knowledge Discovery and Data Mining (KDD)
2023	*Technical Program Committee*, Conference on Uncertainty in Artificial Intelligence (UAI)
2023	*Technical Program Committee*, International Joint Conference on Neural Networks (IJCNN)
2023	*Technical Program Committee*, IEEE International Conference on Image Processing (ICIP)
2023	*Technical Program Committee*, Conference on Information and Knowledge Management (CIKM)
2023	*Technical Program Committee*, American Meteorological Society's Journal on Artificial Intelligence for the Earth Systems (AIES)
2022	*Technical Program Committee*, IEEE Transactions on Signal Processing (TSP)
2017	*Technical Program Committee*, IEEE Transactions on Computational Social Systems (TCSS)
2012	*Student Volunteer*, IEEE International Conference on Robotics and Automation (ICRA)

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

Programming Skills

Python - scikit-learn, numpy, pandas, PyTorch, TensorFlow; Flask; SQL

Research Interests

Machine Learning, Data Science, Social Network Analysis, Graph Theory, Deep Learning, Computer Vision