

Raj Kamal

CONTACT INFORMATION	The Amar Nath and Shashi Khosla School of Information Technology IIT Delhi Campus, Hauz Khas, New Delhi - 110016.	Voice: (+91) 9971885337 E-mail: raj.cse.iitd@gmail.com
RESEARCH INTERESTS	Spectral Hypergraph Theory, Personalized PageRank, Machine Learning, Deep Learning, and Clustering Algorithms.	
EDUCATION	Indian Institute of Technology (IIT) Delhi, India Ph.D., Computer Science & Engineering. • Advisor: Dr. Amitabha Bagchi	December 2018 – Continuing
	Indian Institute of Technology (IIT) Delhi, India M.Tech., Computer Applications. • Dissertation Topic: “Finite Fields and Their Applications” • Advisor: Dr. R. K. Sharma	July 2013 – June 2015
	Indian Institute of Technology (IIT) Delhi, India M.Sc., Mathematics. • Dissertation Topic: “Applications of Linear Algebra” • Advisor: Dr. R. K. Sharma	July 2008 – June 2010
EXPERIENCE	Indraprastha College For Women (University of Delhi) <i>Assistant Professor of Mathematics</i>	July 2015 – Feb 2018
	Miranda House (University of Delhi) <i>Assistant Professor of Mathematics</i>	July 2011 – May 2013
	Lovely Professional University, Jalandhar <i>Assistant Professor of Mathematics</i>	July 2010 – Nov 2010
PUBLICATIONS	Raj Kamal, Amitabha Bagchi. A Lovasz-Simonovits Theorem for Hypergraphs with Application to Local Clustering. Accepted to ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD 2025), June 2025. Published as Proc. ACM. Management of Data, 2(4):1-27, Article No. 190, 30 September 2024. doi/10.1145/3677126 Mahdihusain Momin, Raj Kamal, Shantwana Dixit, Sayan Ranu, Amitabha Bagchi. KWIQ: Answering k-core Window Queries in Temporal Networks. To appear in 26th International Conference on Extending Database Technology (EDBT '23), March 2023. doi:10.48786/EDBT.2023.17	
HONORS AND AWARDS	I am a Venkat Padmanabhan Doctoral Fellow. Prof. M M Chawla Gold Medal for securing highest DGPA amongst all graduates of M.Tech. 2015. All India Rank 19 in Gate - Mathematics. 2013.	
COURSES	• Teaching Assistant: Discrete Mathematics, Numerical Methods, Data Structures. • PhD Course Work: Data Mining, Advanced Data Structures and Algorithms, Digital Image Analysis, Software Engineering.	
SKILLS	• Proficient: C, C++, Python, MATLAB, Mathematica. • Intermediate: C#, Java.	