



I am pursuing PhD in Computer Science and Engineering at IIT Delhi. My PhD research area is personalized PageRank and hypergraph clustering.

I. Personal Details

Name : Raj Kamal
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II. Educational Qualifications

Qualification	Subjects/ Research Area	Institution/ Board	Year of Qualifying the exam/ degree
PhD	Personalized PageRank and Hypergraph Clustering	IIT Delhi	Pursuing Synopsis by the end of January 2025
MTech.	Computer Applications	IIT Delhi	2015
M.Sc.	Mathematics	IIT Delhi	2010
B.Sc.	Mathematics, Physics, and Computer Applications	D. A. V. College, Muzaffarnagar (U.P.)	2008

III. Key courses

Advanced Algorithms (COL758), Machine Learning (COL774), Digital Image Analysis (COL783), Data Mining (COL761), Software Engineering (COL740), Cryptology (MAL724), Discrete Mathematical Structures (MAL705), Database Management Systems (MAL710), Optimization - Computer Oriented Operations Research (MAL526).

IV. Programming skills

C, C++, C#, Java, Python, Julia, MATLAB, Mathematica, LaTeX.

V. National level exams

CSIR-JRF (Plus NET) December 2009 in Mathematics qualified (AIR-184).
GATE-2013 in Mathematics qualified (AIR -19).

VI. Teaching Experience

Institution	Designation	From	To
Miranda House Delhi	Assistant Professor	20.07.2011	20.05.2013
IP College for Women Delhi	Assistant Professor	20.07.2015	15.02.2018

VII. Awards

Prof. M. M. Chawla Gold Medal for securing highest DGPA amongst all graduates of MTech. in Computer Applications for the session 2014 – 2015.

I worked as a resource person for “Training cum Workshop on LaTeX” from 05.08.2016 to 11.08.2016 conducted at IP College for Women Delhi.

I am a Venkat Padmanabhan Doctoral Fellow.

VIII. Publications

Raj Kamal, Amitabha Bagchi, *A Lovasz-Simonovits Theorem for Hypergraphs with Application to Local Clustering*, to appear in SIGMOD 2025.

Mahdihusain Momin, Raj Kamal, Shantwana Dixit, Sayan Ranu and Amitabha Bagchi, "KWIQ: Answering k-core Window Queries in Temporal Networks", in EDBT, 2023.

Date: 19th of January, 2025.

Place: IIT Delhi.

Raj Kamal