

Research Scholar,
Dual Degree (MTech and PhD)
Department of Computer Science & Engineering,
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Abdul Atif Khan



Areas of Interest:

Data Clustering, Similarity Measures, Graph Machine Learning, Large-scale Data Analysis

Education

2019–Present: **Dual Degree (MTech + PhD), Computer Science & Engineering, PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, Madhya Pradesh.**

Thesis title:- Fast Spectral Clustering Techniques

CPI : 8.88/10

2014–2018 : **Bachelor of Engineering, Computer Science & Engineering, Acropolis Institute of Technology & Research, Indore, Madhya Pradesh.**

CPI : 7.84/10

Publications

Journals

- 2024 **Abdul Atif Khan**, Mohammad Maksood Akhter, Rashmi Maheshwari, and Sraban Kumar Mohanty. “L-ASCRA: A Linearithmic Time Approximate Spectral Clustering Algorithm Using Topologically-Preserved Representatives”. In: *IEEE Transactions on Knowledge and Data Engineering* (2024), (IF:8.9, SCI Q1)
- 2023 **Abdul Atif Khan**, Amaresh Chandra Mishra, and Sraban Kumar Mohanty. “An entropy-based weighted dissimilarity metric for numerical data clustering using the distribution of intra feature differences”. In: *Knowledge-Based Systems* 280 (2023), 110967 (IF: 7.2 SCI Q1)
- 2022 **Abdul Atif Khan** and Sraban Kumar Mohanty. “A fast spectral clustering technique using MST based proximity graph for diversified datasets”. In: *Information Sciences* 609 (2022), 1113–1131 (SCI Q1)
- 2025 Mohammad Maksood Akhter, **Abdul Atif Khan**, Rashmi Maheshwari, R Jothi, and Sraban Kumar Mohanty. “A fast sparse graph based clustering technique using dispersion of data points”. In: *Neurocomputing* 618 (2025), 129054, (IF:5.5, SCI Q1)
- 2024 Rashmi Maheshwari, **Abdul Atif Khan**, Mohammad Maksood Akhter, Sraban Kumar Mohanty, and Amaresh Chandra Mishra. “GGDC: Graphical and Gravitational Force-Based Density Clustering”. In: *IEEE Transactions on Computational Social Systems* (2024), (IF:4.5, SCI Q1)

Conferences

- Accepted **Abdul Atif Khan**, Rashmi Maheshwari, Mohammad Maksood Akhter, and Sraban Kumar Mohanty. “SBSC: A fast Self-tuned Bipartite proximity graph-based Spectral Clustering”. In: *Proceedings of the 2025 International Conference on Management of Data (SIGMOD 25)* (2025)

Fellowships

- 2023–present Received Senior research fellowship from PDPM IITDM Jabalpur
2021–2023 Received Junior research fellowship from PDPM IITDM Jabalpur
2019–2021 Received MHRD Scholarship for Master of Technology.

Academic Achievements & Recognitions

- 2025 The best poster award at the PhD Symposium on the Occasion of 20th Foundation Day of PDPM IITDM Jabalpur.
2018 Qualified in GATE 2019.
2017 Qualified the Preliminary regional round of the ACM International Collegiate Programming Contest (ICPC)
2016 Secured 2nd position in Quantum Code during Techfest 2016-17 (IIT Mumbai)

Computer skills

- Programming Languages Python, C, C++, Java, Solidity
Data Science Numpy, Pandas, SciPy, Matplotlib, Scikit learn, Tensorflow, Keras, PyTorch
Technologies HTML 5, CSS, JavaScript, JQuery, NodeJS, Django, SQL, Firebase, MongoDB

Teaching Assistantship

- Courses C Language, Data Structures, Data Clustering, Compiler Design, Java, Design and Analysis of Algorithms, Deep Learning, NoSQL Databases, and Discrete Structures

Reviewer to International Journals

- 1 Knowledge-Based Systems
- 2 IEEE Transactions on Knowledge and Data Engineering

Personal Detail

- Date of Birth: April, 06, 1996
Nationality: Indian
Sex: Male
Marital Status: Single
Address: Mhow Indore (M.P) India, 453441

I hereby declare that the information furnished as above is true to the best of my knowledge and belief.
-Abdul Atif Khan