



Dr. SREENANDA RAUT

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dedicated and research-oriented Assistant Professor in Mathematics with expertise in graph theory, fuzzy graph theory, mathematical modelling, fuzzy logic, fuzzy geometry, data analysis, and design of algorithm. Experienced in teaching undergraduate and postgraduate engineering and mathematics courses, supervising research scholars, and publishing in high-impact SCI/SCIE indexed journals. Passionate about interdisciplinary research and innovative pedagogy for higher education.

2. RESEARCH INTERESTS

- Fuzzy Graph Theory
- Fuzzy Geometry
- Mathematical Modeling
- Fuzzy Logic and Decision-Making
- Deep Learning
- Mathematical Applications in real world problems

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Fuzzy Graph Theory — Vidyasagar University, 2022
- M.Sc. in Mathematics — Netaji Subhas University, 2012
- B.Sc. (Honours) in Mathematics — Calcutta University, 2009

4. PROFESSIONAL EXPERIENCE

- Assistant Professor in Mathematics— Dayananda Sagar University, Bangalore, India 2023 - present date
- Senior Lecturer in Mathematics (M.Sc.)— Mahatma Gandhi University, Mahishadal, India, 2022-2022
- Assistant Teacher in Mathematics — National High School, Kolkata, India, 2015-2017
- Lecturer in Mathematics (M.Sc.)— Jogesh Chandra Chaudhuri College, Kolkata, India | 2013 – 2015

5. RESEARCH HIGHLIGHTS

- Publications: 6 (SCI/ SCIE/ SCOPUS)
- Conference Proceedings: 5
- Books/Book Chapters: 2
- Patents: 1

- Awards:

1. Recipient of Outstanding Paper Award at International Conference on Advances in Mathematics for Artificial Intelligence and Applications (ICAMAIA 2026).
2. Young Scientist Award at India International Science Festival 2023 for presenting my research paper.

• Conference Roles:

1. Session Co-ordinator at the 'International Conference on Mathematical Aspects of Fuzzy Logic and Its Applications' organised by Vidyasagar University, West Bengal, India, 20-21 June 2025
2. Reviewer: Reviewer of Journals like Soft Computing, Springer Nature; Scientific Reports, Springer Nature; Discover Applied Sciences, Springer Nature.

- Academic Membership: Life Member of Sridharacharya Academy of Mathematical Sciences (SAAMS) since 2025

6. SELECTED PUBLICATIONS

1. Aiman L W, Raut S. & Dodamani A S. A Study on Soft β^* -continuity and compactness and their applications on decision-making problems. Boletim da Sociedade Paranaense de Matemática, Q3, SCOPUS (IF: 0.6), 2026, Accepted ISSN-0037-8712 (PRINT), 44:1-13.
2. Raut, S., & Pal, M. On chromatic number and perfectness of fuzzy graph. Information Sciences (Elsevier), Q1 SCI, 2022 (IF: 6.795)
3. Raut, S., & Pal, M. Fuzzy intersection graph: a geometrical approach. Journal of Ambient Intelligence and Humanized Computing (Springer), Q1 SCIE, 2022 (IF: 7.104)
4. Raut, S., & Pal, M. Generation of fuzzy maximal cliques of fuzzy permutation graph and its applications. Artificial Intelligence Review (Springer), Q1 SCI, 2020 (IF: 8.139)
5. Rashmanlou, H., Pal, M., Raut, S., et al. Novel concepts in intuitionistic fuzzy graph with application. Journal of Intelligent and Fuzzy Systems, Q2, 2019. (IF: 1.426)
6. Raut S, Pal M & Ghorai G. Fuzzy permutation graph and its complements. Journal of Intelligent and Fuzzy Systems, Q2, 2018. (IF: 1.426)

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=02i6KIEAAAAJ&hl=en>
- ORCID: 0000-0001-7560-2258
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57203872407>
- ResearchGate: <https://www.researchgate.net/profile/Sreenanda-Raut-2>

8. CONTACT

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