



PROFESSOR

Dr. Ratul Kumar Majumdar

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RESEARCH INTERESTS:

REAL TIME DATA MANAGEMENT, MACHINE LEARNING, BIOINFORMATICS

EXPERIENCE:

Academics: 17 Years

Industry: 1.5 Years

EDUCATION:

1. PhD (IIT BOMBAY)
2. M.Tech (IIT Dhanbad)
3. B.E (IEST SHIBPORE)

Courses Taught:

Artificial Intelligence, Machine Learning, Pattern Recognition, Operating System, Cryptography and Network Security

Projects Handled:

I. 2024-2025 MACHINE LEARNING

1. Machine learning based Detection of Cardiovascular Disease using ECG signals.
2. Face Recognition Systems.

II. 2023- 2024 Machine Learning

1. Automatic Face mask detection using Deep learning Approach,
2. Automatic Speech Recognition system using Machine learning

Research Publications:

1. Ratul kr. Majumdar, Krithi Ramamritham, Ming Xiong: Location Management in Mobile Environments. Encyclopedia of Database Systems (2nd ed.) 2018
2. Feedback Driven Dissemination of Dynamic Data: Towards Providing QoS Guarantees in Wide Area Networks. RK Majumdar, PQDT-Global
3. Ratul kr. Majumdar, Krithi Ramamritham, Ravi N. Banavar, Kannan M. Moudgalya: Disseminating Dynamic Data with QoS Guarantee in a Wide Area Network: A Practical Control Theoretic Approach. IEEE Real-Time and Embedded Technology and Applications Symposium 2004: 510-517
4. Ratul kr. Majumdar, Krithi Ramamritham, Ming Xiong: Exploiting User Mobility

Patterns for Adaptive Location Management. IEEE Distributed Syst. Online 4(12) (2003)

5. Ratul kr. Majumdar, Krithi Ramamritham, Ming Xiong: Adaptive Location Management in Mobile Environments. Mobile Data Management 2003: 196-211
6. Ratul kr. Majumdar, Kannan M. Moudgalya, Krithi Ramamritham: Adaptive Coherency Maintenance Techniques for Time-Varying Data. RTSS 2003: 98-107

(ONLINE REFERENCE):

1. <https://scholar.google.co.in/citations?user=SE1YO8sAAAAJ&hl=en>
2. <https://dblp.org/pid/47/1957.html>

Additional Responsibilities:

Project Committee Coordinator, Dean (Academics), BOS Member, Departmental IQAC Member

Awards Obtained:

1. One Paper Received Honorable Mention In Mobile Data Management 2003, Melbourne Australia.
2. Research Fellowship At IIT BOMBAY In The Year 2002