

Faculty Profile



1. Name: **DEBRAJ ROY**
2. Designation: **SACT**
3. Name of the Department: **COMPUTER SCIENCE**
4. E-mail ID: drr@tmv.ac.in / debraj545roy@gmail.com
5. WEB Page, if any: <https://vidwan.inflibnet.ac.in/profile/218107>
6. Exam Qualified: **UGC NET (AP,2023), UGC NET(Ph.D, 2024)**
Other Exam Qualified: **CUCET(2019) & CURET(2023)**

7. Educational Qualifications :

Examination	Name of the University/Institution	Year of Passing	Subject
M.Sc	NSHM College of Management & Technology,kol-234	2017	Computer Science
B.Sc	Tamralipta Mahavidyalaya	2015	Computer Science(Hons)
H.S.	Tamluk High School(H.S.)	2012	BNGA,ENGB,MATH, STATISTICS ,PHYS.

8. Research Degree(s):

Degree	Name of the Degree Awarding Institution	Date of Award	Title
PhD(Pursuing)	NIT Jamshedpur		

9. Teaching Experience (in Years): **Over 7 Years**

10. Specialization/Expertise/Teaching Area: **Computer System Architecture, Discrete Structures, Advanced Computer Network, DBMS, Data Science, ML, DL, AI.**

11. Courses Taught: **UG**

12. Publications and Others:

A] PATENTS:

1. [Sunspark-Solar Tree Design Framework for Maximized Power Generation With Minimized Structural Cost](#), Publication date, 2025/1/9, Patent office: IN, Application number: 471912-001
Monojit Manna ,Debraj Roy,Dr.Tanujit Biswas,Anwesa Naskar,Debasri Samanta,Sourish Dutta,Kaustab Nandy,Satyam Kumar Jha,Vivek Kushawaha,Ditu Barai,Sima Das, Subharoop Ghosh.

2.

B] Books Published:

- 1.
- 2.
- 3.

C] Research Papers in International/National Journals:

1. [Enhancing Network Lifetime by Optimized Resource Allocation and Scheduling to Reduce Redundancy in DSR Protocol for Wireless Ad Hoc Networks](#), Indian Journal of Natural Sciences, Volume-17, issue-95, 2026.
Monojit Manna, Somrita Jana, Debraj Roy, Mehbub Rahaman Mondal, Ditu Barui and Aditi Sinha
2. [Mind Meets Machine: Analyzing the Integration of AI-Based Chatbots in Mental Health Diagnostics and Support](#), Smart Healthcare: The Role of AI in Modern Healthcare, volume-1, 2026.
Anwesa Naskar, Lina Mondal, Debraj Roy, Monojit Manna, Ditu Barai
3. [Revolutionizing transplantation: the role of Artificial Intelligence, IoT, and Smart Drones to enhance organ preservation and transportation in healthcare innovation](#), Journal of Research and Innovation in Technology, Commerce and Management, DOI: <https://zenodo.org/records/15573292>, volume-2, issue 6, Publisher: CMAOI Association, 2025.
Monojit Manna, Lina Mondal, Anwesa Naskar, Debraj Roy, Suman Biswas

D] Conference Papers:

a) International Conference:

1. D. Roy, "[Deep Learning-Powered Fake News Detection: A Multimodal and Adversarial Approach](#)", International Conference on Recent Developments in Research, West Bengal, India, 2025
[ISBN: 9798314091937](https://doi.org/10.1007/978-981-96-4273-1_18)
2. D. Roy, B. Jana, P. Bera, D. Patra and R. Dutta, "[Predicting and Identifying Potato Blight Disease Through Deep Learning with Fuzzy Approaches](#)", International Conference on Intelligent Systems and Security (ICISS 2024), Indian Institute of Engineering Science and Technology (IIST), Shibpur, Howrah, West Bengal 711103, India, 2024.
https://link.springer.com/chapter/10.1007/978-981-96-4273-1_18

b) Science Congress

1. D. Roy, B. Paul, "[Hybrid Deepfake Detection: Leveraging Video Vision Transformers and BiLSTM for Enhanced Temporal and Spatial Analysis](#)", e-Book (Page-98), 7th Regional Science & Technology Congress-2024-25 (Region-4), Midnapore College (Autonomous), Midnapore-721101, West Bengal, India, 2025.
https://drive.google.com/file/d/1-nSqm1_binNROzUrTSh4wYh49dezEchu/view?usp=drive_link

c) National/ International Seminar

1. D. Roy, "[Disease Severity Level Prediction using ML & DL](#)", A One-Day International Seminar on Viksit Bharat@2047: Accelerating Nation-Building through Inclusive Education and Literature, West Bengal, India, 2026.

E] Conference / Symposium/ Seminar Attended

• International Level

Name of The Conference	Organizer, Date, Venue	Link
International Conference on Recent Developments in Research	Department of Mathematics, Tamralipta Mahavidyalaya, 28 th June, 2023	https://drive.google.com/file/d/1wp8pLmHK90iZoeFrh-xRrTH_p3y9X12G/view?usp=drive_link

- **State Level**

Name of The Seminar	Organizer, Date, Venue	Link
S.N. Bose, Bose Statistics & Boson in Nuclear Physics	Department of Mathematics & the Department of Physics, Tamralipta Mahavidyalaya, 21st Dec, 2024	https://drive.google.com/file/d/1EtgT4WrWUd6jLleQKTX5lYsKSapcJ9J_/view?usp=drive_link

F] Invited Lectures Delivered in Seminars/Webinars: (Title, Name of Seminar/Webinar, Organizer Date and Venue):

- 1. Cyber Crime & Cyber Security, Angarkata Parodubi High School, 28th July, 2021 (Webinar)**
https://drive.google.com/file/d/10OFqCAjTghGK84VxK5Zf4qYBLvypxyfU/view?usp=drive_link