

Dr. Dipanjyoti Paul

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 Google Scholar |  LinkedIn |  GitHub |  X |  Website

CURRENT STATUS

- Assistant Professor Grade I
Department of Artificial Intelligence, IIT Kharagpur October 2026 - Present
Kharagpur, India
- Visiting Researcher
C-AIR, University of Tsukuba October 2025 - Present
Tsukuba, Japan
- Visiting Scientist
TDAI, The Ohio State University January 2024 - Present
Columbus, USA

RESEARCH INTERESTS

Computer Vision (CV) • Natural Language Processing (NLP) • Multimodal AI • Explainable AI (XAI) • AI for Biodiversity • Medical Image Analysis

EXPERIENCE & EDUCATION

- Assistant Professor Grade II October 2025 - September 2026
Department of Information Technology, IIST Shibpur Howrah, India
- Assistant Professor March 2024 - September 2025
Department of Computer Science, University of Tsukuba Tsukuba, Japan
- Postdoctoral Fellow October 2022 - January 2024
Department of Computer Science & Engineering, The Ohio State University Columbus, USA
- PhD, Department of CSE, IIT Patna July 2017 - May 2022
Supervisor: Dr. Sriparna Saha and Dr. Jimson Mathew Patna, India
Title: Advanced Machine Learning Algorithms for Streaming Data

INVITED TALKS

- Invited speaker for the *Executive Development Program (EDP) on Applications of AI and Machine Learning*, organized by IIST Shibpur and BCC&I, India. January 2026.
- Invited talk on *Interpretability in Ecological and Biological Vision Data* at IIT Patna, India. February 2024.
- Delivered a tutorial titled, *Summarization Systems: From Text to Multimodal*, at ICONIP 2022, New Delhi, India.
- Invited instructor for the course, *Foundations of Computer Science* at the National Institute of Pharmaceutical Education and Research (NIPER), Hajipur, India. July-November 2021.
- Invited to deliver a talk on *Machine Learning and Applications* at the Bombay Stock Exchange (BSE), India.
- Invited to deliver a talk on *Machine Learning and Applications* during the Faculty Development Program (FDP) at Cochin University of Science and Technology (CUSAT), Kochi, India. December 2020.

AWARDS

- Nominated for the Best Paper Award at the International Conference on Neural Information Processing (ICONIP 2019), CORE: A.
- Recipient of the Institute Scholar Fellowship from the Ministry of Education (MoE), Government of India, during the PhD program at the Indian Institute of Technology Patna, India. July 2017 – May 2022.
- Recipient of the GATE Scholarship from the All India Council for Technical Education (AICTE) during the M.Tech. program at the Indian Institute of Engineering Science and Technology (IIST) Shibpur, India. July 2014 – June 2016.

PROFESSIONAL SERVICES

- **PC Member:** ICONIP, IJCNLP–AAACL.
- **Reviewer:**
 - Conferences: ICML, ICPR, ICONIP.
 - Journals: IEEE TAI, TCSS, IC, CIM, TCE, TEC; ACM TALLIP, TKDD; Elsevier KBS, IS, ESWA, PRL; ETE J. Res.
- **Membership:** IEEE, ACM, APNNS.

PUBLICATIONS

Citation Count

- **Google Scholar (July 2026):** 417 citations, h-index: 9, i10-index: 9, and 19 publications.

Journal Articles

1. **Dipanjoyoti Paul**, Shivani Rana, Sriparna Saha, Jimson Mathew. Online Summarization of Micro-blog Data: An Aid in Handling Disaster Situations. *IEEE Transactions on Computational Social Systems (TCSS)*, 2024.
2. **Dipanjoyoti Paul**, Snigdha Bardhan, Sriparna Saha, Jimson Mathew. ML-Knockoff: A Deep-Based Online Feature Selection Approach for Multi-Label Data. *Knowledge-Based Systems (KBS)*, 2023.
3. **Dipanjoyoti Paul**, Daipayan Chakdar, Sriparna Saha, Jimson Mathew. Online Research Topic Modelling and Recommendation Utilizing a Multi-view Autoencoder-Based Approach. *IEEE Transactions on Computational Social Systems (TCSS)*, 2023.
4. **Dipanjoyoti Paul**, Daipayan Chakdar, Sriparna Saha, Jimson Mathew. Multi-view Deep Online Clustering: An Application to Online Research Topic Modeling and Recommendations. *IEEE Transactions on Computational Social Systems (TCSS)*, 2022.
5. Saptarshi Mandal, **Dipanjoyoti Paul**, Sriparna Saha, Prolay Das. Deep Learning-Assisted Detection of Toxic Heavy Metal Ions Based on Visual Fluorescence Responses from a Carbon Nanoparticle Array. *Environmental Science: Nano*, 2022.
6. Saptarshi Mandal, **Dipanjoyoti Paul**, Sriparna Saha, Prolay Das. Multi-layer Perceptron for Detection of Different Classes of Antibiotics from Visual Fluorescence Responses of a Carbon Nanoparticle-Based Multichannel Array. *Sensors and Actuators B: Chemical*, 2022.
7. **Dipanjoyoti Paul**, Rahul Kumar, Sriparna Saha, Jimson Mathew. Multi-objective Cuckoo Search-Based Streaming Feature Selection for Multi-Label Data. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2021.
8. **Dipanjoyoti Paul**, Anushree Jain, Sriparna Saha, Jimson Mathew. Multi-objective PSO-Based Online Feature Selection for Multi-Label Classification. *Knowledge-Based Systems (KBS)*, 2021.
9. **Dipanjoyoti Paul**, Sriparna Saha, Abhishek Kumar, Jimson Mathew. Evolutionary Multi-objective Optimization-Based Overlapping Subspace Clustering. *Pattern Recognition Letters (PRL)*, 2021.
10. **Dipanjoyoti Paul**, Sriparna Saha, Jimson Mathew. Improved Subspace Clustering Algorithm Using a Multi-objective Framework and Feature Optimization. *Expert Systems with Applications (ESWA)*, 2020.
11. **Dipanjoyoti Paul**, Sriparna Saha, Jimson Mathew. Fusion of Evolvable Genome Structure and Multi-objective Optimization for Subspace Clustering. *Pattern Recognition (PR)*, 2019.
12. Kamalika Bhattacharjee, **Dipanjoyoti Paul**, Sukanta Das. Pseudo-random Number Generation Using a 3-State Cellular Automata. *International Journal of Modern Physics C*, 2017.

Conference Proceedings

1. Arpita Chowdhury, **Dipanjoyoti Paul**, Zheda Mai, Jianyang Gu, Ziheng Zhang, Kazi Sajeed Mehrab, Elizabeth G. Campolongo, Daniel Rubenstein, Charles V. Stewart, Anuj Karpatne, Tanya Berger-Wolf, Yu Su, Wei-Lun Chao. Prompt-CAM: Making Vision Transformers Interpretable for Fine-Grained Analysis. *IEEE Computer Vision and Pattern Recognition (CVPR)*, 2025. (CORE: A*).
2. **Dipanjoyoti Paul**, Arpita Chowdhury, Xinqi Xiong, Feng-Ju Chang, David Carlyn, Samuel Stevens, Kaiya Provost, Anuj Karpatne, Bryan Carstens, Daniel Rubenstein, Charles V. Stewart, Tanya Berger-Wolf, Yu Su, Wei-Lun Chao. A Simple Interpretable Transformer for Fine-Grained Image Classification and Analysis. *International Conference on Learning Representations (ICLR)*, 2024. (CORE: A*).
3. **Dipanjoyoti Paul**, Sriparna Saha, Jimson Mathew. Online Multi-objective Subspace Clustering for Streaming Data. *International Conference on Neural Information Processing (ICONIP)*, 2020. (CORE: A).
4. **Dipanjoyoti Paul**, Abhishek Kumar, Sriparna Saha, Jimson Mathew. Improved Multi-objective Evolutionary Subspace Clustering. *International Conference on Neural Information Processing (ICONIP)*, 2019. (CORE: A).
5. **Dipanjoyoti Paul**, Rahul Kumar, Sriparna Saha, Jimson Mathew. Online Feature Selection for Multi-Label Classification in a Multi-objective Optimization Framework. *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, 2019.
6. **Dipanjoyoti Paul**, Sriparna Saha, Jimson Mathew. Multi-objective Optimization-Based Subspace Clustering Using Evolvable Genome Structure. *Genetic and Evolutionary Computation Conference Companion (GECCO Companion)*, 2018. (CORE: A).
7. Kamalika Bhattacharjee, **Dipanjoyoti Paul**, Sukanta Das. Pseudorandom Pattern Generation Using 3-State Cellular Automata. *International Conference on Cellular Automata (ACRI)*, 2016.