

Career Summary

- ✓ **Research & Publications:** Over 10 years of research experience in Computing and AI, with 49 publications that include international collaborations and funded projects. Citations: 2600+ (Google Scholar), 1500+ (Scopus).
- ✓ **Teaching & Mentorship:** Over 13 years of experience in academia, designing and delivering diverse courses. Supervised 34 M.Sc. students for their projects and am currently supervising 4 Ph.D. scholars, including two junior colleagues. Contributed to the successful graduation of over 200 students.
- ✓ **Academic Leadership:** As Head of Department, led the development of new undergraduate and postgraduate curricula, and launched an industry-focused Computer Application Honors program. Enhanced student recruitment process as a Joint Convenor of the admissions committee.
- ✓ **Professional Engagement:** Served as an executive committee member of the IEEE CIS Kolkata Chapter. Contributed and organized major events, including ACVR Workshop Series (ICCV/ECCV), FAIRBIO (ICPR), and ICCTE. Active reviewer and editorial member for top-tier venues.

Experience (Full-time)

- **Senior Research Fellow in Artificial Intelligence (Aug 2024 – Present)**
National Research Council of Italy - Institute of Applied Sciences and Intelligent Systems (CNR-ISASI), Lecce, Italy.
- **Assistant Professor in Computer Science (Feb 2016 – Present) [on sabbatical since Aug 2024]**
University of Gour Banga, West Bengal, India.
- **Assistant Teacher in Mathematics (July 2011 – Feb 2016)**
Kanska Rahimia High Madrasah (Higher Secondary), West Bengal, India.
- **Block Social Audit Coordinator (Nov 2010 – July 2011)**
MGNREGA Project, Krishnanagar-II Development Block, West Bengal, India.

Education

- **Ph.D. in Computer Science**, Visva Bharati University, Santiniketan, India. (2017–2022)
- **M.C.A.**, West Bengal University of Technology (MAKAUT), Kolkata, India. (2007–2010)
- **B.Sc. (Honours) in Mathematics**, University of Kalyani, Kalyani, India. (2002–2007)

Current Research Domains

- Computer Vision • Deep Learning • Generative AI • Explainable AI
- Fairness Dataset • Responsible AI • Media Forensics • Healthcare

Research Output

- Journal Papers: **26** • Conference Papers: **18** • Book Chapters: **5**
- [Google Scholar Link](#) • [Scopus Profile Link](#) • Details: In the Appendix Below

Area of Teaching Experience

- Mathematics for Computing • Data Structures and Algorithms • Java & Python
- Database Management Systems • Artificial Intelligence • Deep Learning
- Computational Intelligence • Machine Learning • Computer Vision

Project/Grant Experience

- As a Researcher: **1** • As a Consultant: **4** • Travel Grant: **2** • Details: In Appendix

Membership in Scientific and Professional Society

- Senior Member of IEEE, IEEE CIS, IEEE Biometrics Council (Member ID 94491064)
- Lifetime Professional Member of The Computer Society of India (Member ID I1510614)

Fellowship & Eligibility Accrued

- Awarded Senior Postdoctoral Fellowship
CNR-ISASI, Italy, through public competition for the years 2024 to 2025 to work on the project “FAIR: Future Artificial Intelligence Research (Extended Partnership 01: Artificial Intelligence: Aspects Foundational - PE 0000013, CUP B53C22003630006) Mission 04 Education and Research – Component 2 From Research to Business - investment 1.3 NextGenerationUE”.
- State Eligibility Test (SET 2014)
A state-level eligibility examination conducted by the West Bengal College Service Commission (WBCSC) for the post of Assistant Professor in the colleges and universities of West Bengal, India.
- Merit-cum-Means Scholarship
Awarded by Govt. of India to Pursue my Master Degree during 2007-2010.

Other Academic & Professional Information

- No. of Administrative Duties Performed: **5**
- No. of Events Organized: **7**
- No. of Presentations and Invited Talks: **12**
- No. of Short-term Courses/Trainings/Workshops Completed: **20**

Professional Reference

- **Prof. Cosimo Distante**, Unit Director, National Research Council of Italy - Institute of Applied Sciences and Intelligent Systems (CNR-ISASI), Lecce, Italy. cosimo.distante@cnr.it
- **Prof. Paramartha Dutta**, Professor, Department of Computer & System Sciences, Visva-Bharati, India. paramartha.dutta@visva-bharati.ac.in
- **Prof. Mianxiong Dong**, Professor and Vice President, Muroran Institute of Technology, 27-1 Mizumoto-cho, Muroran, Hokkaido, 050-8585, Japan. mx.dong@csse.muroran-it.ac.jp
- **Dr. Marco Leo**, Senior Researcher, National Research Council of Italy - Institute of Applied Sciences and Intelligent Systems (CNR-ISASI), Lecce, Italy. marco.distante@cnr.it
- **Farhana Sultana**, Head, Department of Computer Science, University of Gour Banga, India. sfarhana@ugb.ac.in

Appendix

List of Journal Papers

26. **Abu Sufian**, Anirudha Ghosh, Debaditya Barman, Cosimo Distante, Marco Leo, & Farhana Sultana. “DemoFace: A Demographic Pixelated Face Biometric Image-Text Embedding Dataset with Fairness Baselines.” *Pattern Recognition*, Elsevier, [Status: Revision Addressed and Re-submitted], (2025).
25. Mohammed Al-Naeem, MM Hafizur Rahman, Anuradha Banerjee, & **Abu Sufian**. “BSM-DND: Bias and Sensitivity-Aware Multilingual Deepfake News Detection Using Bloom Filters and Recurrent Feature Elimination.” *IEEE Access*, Vol. 13, (2025).
24. MDS Momin, **Abu Sufian**, Debaditya Barman, Marco Leo, Cosimo Distante, & Naser Damer. “Explainable Deepfake Detection Across Different Modalities: An Overview of Methods and Challenges”, *Image and Vision Computing*, Elsevier, Vol. 163, 105738, (2025).
23. Anirudha Ghosh, Deabditya Barman, **Abu Sufian**, & Ibrahim A. Hameed. “Advancing Optical Character Recognition for Low-Resource Scripts: A Siamese Meta-Learning Approach with PSN Framework”, *IEEE Access*, Vol. 12, (2024).
22. Ekram Alam, **Abu Sufian**, Paramartha Dutta, Marco Leo, and Ibrahim A. Hameed. “GMDCSA-24: A Dataset for Human Fall Detection in Videos.” *Data in Brief*, Elsevier, Vol. 57, 110892, (2024).
21. Anuradha Banerjee, **Abu Sufian**, Paramartha Dutta, and MMH Rahman. “Minus HELLO: HELLO Devoid Protocols for Energy Preservation in Mobile Ad-hoc Networks.” *Sustainable Computing: Informatics and Systems*, Elsevier, Vol. 26, 100852, (2023).
20. Anuradha Banerjee, Sachin Kumar Gupta, Parul Gupta, **Abu Sufian**, Ashutosh Srivastava, Manoj Kumar. “UAV-IoT collaboration: Energy and Time-saving Task Scheduling Scheme.” *International Journal of Communication Systems*, Wiley, Vol. 36(14):e5555, (2023).
19. Anuradha Banerjee, **Abu Sufian**, Ashutosh Srivastava, Sachin Kumar Gupta, Saru Kumari, and Sachin Kumar. “An Energy and Time-Saving Task Scheduling Algorithm for UAV-IoT Collaborative System.” *Microprocessors and Microsystems*, Elsevier, Vol. 101, 104875, (2023).
18. Subhankar Ghosh, Anuradha Banerjee, **Abu Sufian**, Sachin Kumar Gupta, S. H. Alsamhi, and Abdu Saif. “Efficient Selfish Node Detection using SVM in IoT-MANET Environment.” *Transactions on Emerging Telecommunications Technologies*, Wiley, Vol. 34(12):e4858 (2023).
17. M Al-Naeem, MH Rahman, Anuradha Banerjee, and **Abu Sufian**. “Support Vector Machine-based Energy-efficient Management of UAV Locations for Aerial Monitoring of Crops Over Large Agriculture Lands.” *Sustainability*, MDPI, 15(8), 6421, (2023).
16. MH Rahman, M Al-Naeem, Anuradha Banerjee, and **Abu Sufian**. “EETO-GA: Energy Efficient Trajectory Optimization of UAV-IoT Collaborative System using Genetic

- Algorithm.” *Applied Sciences*, MDPI, 13(4), 2535, (2023).
- 15. Ekram Alam, **Abu Sufian**, Paramartha Dutta, and Marco Leo. “Vision-based Human Fall Detection Systems using Deep Learning: A Review.” *Computers in Biology and Medicine*, Elsevier, Vol. 146, 105626 (2022).
 - 14. Md Sarfaraz Momin, **Abu Sufian**, Debaditya Barman, Paramartha Dutta, Mianxiong Dong, and Marco Leo. “In-home Older Adults’ Activity Pattern Monitoring using Depth Sensors: A Review.” *Sensors*, MDPI, Vol. 22(23), 9067, (2022).
 - 13. **Abu Sufian**, Anirudha Ghosh, Avijit Naskar, Farhana Sultana, Jaya Sil, MMH Rahman. “BDNet: Bengali Handwritten Numeral Digit Recognition based on Densely Connected Convolutional Neural Networks.” *Journal of KSU - Computer and Information Sciences*, Elsevier, Vol. 34, Issue 6, Part A, (2022).
 - 12. Subhankar Ghosh, Anuradha Banerjee, **Abu Sufian**, and Sachin Kumar Gupta. “Autoregressive Moving Average based Anycast with Support Vector Machine Clustering in Mobile Ad-hoc Networks.” *Transactions on Emerging Telecommunications Technologies*, Wiley, Vol. 33(4):e4432, (2022).
 - 11. Anuradha Banerjee, **Abu Sufian**, Krishna Keshob Paul, and Sachin Kumar Gupta. “EDTP: Energy and Delay Optimized Trajectory Planning for UAV-IoT Environment.” *Computer Networks*, Elsevier, Vol. 202, 108623, (2021).
 - 10. Anuradha Banerjee, **Abu Sufian**, Ali Safaa Sadiq, and Seyedali Mirjalili. “Minimum Energy Transmission Forest based Geocast in Software-Defined Wireless Sensor Networks.” *Transactions on Emerging Telecommunications Technologies*, Wiley, Vol. 32(9):e4253, (2021).
 - 9. Anuradha Banerjee and **Abu Sufian**. “Smart-Green-Mult (SGM): Overhear from Topological Kingpins in Software Defined Wireless Sensor Networks.” *Journal of Ambient Intelligence and Humanized Computing*, Springer, Vol. 12, 387–404, (2021).
 - 8. **Abu Sufian**, Anirudha Ghosh, Ali Safaa Sadiq, and Florentin Smarandache. “A Survey on Deep Transfer Learning to Edge Computing for Mitigating the COVID-19 Pandemic.” *Journal of Systems Architecture*, Elsevier, Vol. 108, 101830, (2020).
 - 7. Farhana Sultana, **Abu Sufian**, and Paramartha Dutta. “Evolution of Image Segmentation using Deep Convolutional Neural Network: A Survey.” *Knowledge-Based Systems*, Elsevier, Vol. 201-202, 106062, (2020).
 - 6. Rahman, MM Hafizur, Mohammed Al-Naeem, Mohammed NM Ali, and **Abu Sufian**. “TFBN: A Cost Effective High-Performance Hierarchical Interconnection Network.” *Applied Sciences*, MDPI, Vol. 10(22), 8252, (2020).
 - 5. **Abu Sufian**, Anuradha Banerjee, and Paramartha Dutta. “Energy and Velocity based Tree Multicast Routing in Mobile Ad-hoc Networks.” *Wireless Personal Communications*, Springer, Vol. 107, no. 4, 2191-2209 (2019).
 - 4. Anuradha Banerjee, Paramartha Dutta, and **Abu Sufian**. “Movement Guided Management of Topology (MGMT) with Balanced Load in Mobile Ad-hoc Networks.” *International Journal of Information Technology*, Springer, Vol. 11, 149-158 (2019).
 - 3. **Abu Sufian**, Anuradha Banerjee, and Paramartha Dutta. “Cheat-Proof Communi-

- cation through Cluster Head (C3H) in Mobile Ad Hoc Network.” *Pertanika Journal of Science and Technology*, University Putra Malaysia, Vol 26 (3), 1513-1526, (2018).
2. Anuradha Banerjee, **Abu Sufian**, and Paramartha Dutta. “EMR-PL: Energy-efficient Multipath Routing based on Link Life Prediction in Ad-hoc Networks.” *Journal of Information and Optimization Sciences*, Taylor & Francis, Vol. 39(1): 285-301, (2018).
 1. Anuradha Banerjee, Paramartha Dutta, and **Abu Sufian**. “Fuzzy-controlled energy-efficient single hop clustering scheme with (FESC) in ad hoc networks.” *International Journal of Information Technology*, Springer, Vol. 10, 313-327 (2018).

List of Conference Papers

18. **Abu Sufian**, Cosimo Distante, Marco Leo, and Hanan Salam. “T2IBias: Uncovering Societal Bias Encoded in the Latent Space of Text-to-Image Generative Models.” In *First Interdisciplinary Workshop on Responsible AI for Value Creation (REPAI 2025)*, Copenhagen, Denmark, December 01, 2025. [Accepted, the proceeding will come in Springer LNCS]
17. Ranjan Ghosh, Mili Ghosh, & **Abu Sufian**. “Bangla Deepfake Audio Detection Using Prosodic and Spectral Features.” In *International Conference on Machine Learning and Data Engineering (ICMLDE 2025)*, Dehradun, India, November 06-08, 2025. [Proceeding will come in Procedia Computer Science, Elsevier]
16. Anirudha Ghosh, Debaditya Barman, **Abu Sufian**, Megha Mandal, Cosimo Distante, & Marco Leo. “FairVitDMD: Fairness Assessment of Foundational Vision Transformers for Deep Manipulation Detection.” In *IEEE International Conference on Computer Vision and Machine Intelligence (CVMI 2025)*. NIT Rourkela, India, October 12-13, 2025. [Proceeding will come in IEEE Xplore]
15. **Abu Sufian**, Anirudha Ghosh, Debaditya Barman, Marco Leo, and Cosimo Distante. “DemoBias: An Empirical Study to Trace Demographic Biases in Vision Foundation Models.” In *13th Int. Workshop on Biometrics and Forensics*, Munich, April 24-25, 2025. Proceeding in IEEE Xplore.
14. **Abu Sufian**, Marco Leo, Cosimo Distante, Anirudha Ghosh, and Debaditya Barman. “Can Vision Transformers with ResNet’s Global Features Fairly Authenticate Demographic Faces?” Presented in *ICPR 2024 Workshop: FAIRBIO: Fairness in Biometric Systems*, Kolkata. Proceeding in Springer LNCS.
13. Anuradha Banerjee, **Abu Sufian**, and Marco Leo. “Machine Learning Approaches for Analyzing Physiological Data in Remote Patient Monitoring.” In *ECCV 2024 Workshop: Assistive Computer Vision and Robotics*, Milan, September 29- October 4, 2024. Proceeding in Springer LNCS.
12. Ekram Alam, **Abu Sufian**, Paramartha Dutta, Marco Leo. “Human Fall Detection using Transfer Learning-based 3D CNN.” In *the International Conference on Computational Technologies and Electronics (ICCTE-2023)* 23-25th November 2023, hosted at the University of North Bengal, Siliguri, India. Proceeding in Springer CCIS Series.
11. Farhana Sultana, **Abu Sufian** and Paramartha Dutta. “d-RIMNet: RIMNet with Depthwise Separable Convolutional Layer for Retinal OCTA Image Segmentation.”

In *International Conference on Computational Technologies and Electronics (ICCTE-2023)* 23-25th November 2023, hosted at the University of North Bengal, Siliguri, India. Proceeding in Springer CCIS Series.

10. **Abu Sufian**, Anirudha Ghosh, Debaditya Barman, Marco Leo, Cosimo Distante and Baihua Li. "FewFaceNet: A Lightweight Few-Shot Learning-based Incremental Face Authentication for Edge Cameras." In *ICCV 2023 Workshop: Assistive Computer Vision and Robotics*, Paris, October 2 - 6, 2023. Proceeding in IEEE Xplore.
9. Ekram Alam, **Abu Sufian**, Paramartha Dutta, Marco Leo. "Real-Time Human Fall Detection using a Lightweight Pose Estimation Technique." In *5th CICBA 2023* 27-28th January 2023, hosted at Kalyani Govt. Engineering College, Kalyani, India. Proceeding in Springer CCIS Series.
8. Farhana Sultana, **Abu Sufian** and Paramartha Dutta. "Automatic Diabetic Retinopathy Lesion Segmentation in UW-OCTA Images using Transfer Learning." In *MICCAI 2022 Grand-challenge: DRAC22*, September 18–22, 2022, Singapore. Proceeding in Springer LNCS.
7. Farhana Sultana, **Abu Sufian** and Paramartha Dutta. "RIMNet: Image Magnification Networks with Residual Block for Retinal Blood Vessels Segmentation." In *IEEE TENSYMP 2022*, hosted at Indian Institute of Technology Bombay, July 1-3, 2022. Proceeding in IEEE Xplore.
6. **Abu Sufian**, Changsheng You, and Mianxiong Dong. "A Deep Transfer Learning-based Edge Computing Method for Home Health Monitoring." In *55th Annual Conference on Information Sciences and Systems (CISS)* hosted at Johns Hopkins University, March 24-26, 2021. Proceeding in IEEE Xplore.
5. Ekram Alam, **Abu Sufian**, Akhil Kumar Das, Arijit Bhattacharya, Md Firoj Ali, and MM Hafizur Rahman. "Leveraging Deep Learning for Computer Vision: A Review." In *22nd International Arab Conference on Information Technology (ACIT)*, Muscat, Oman, December 21-23, 2021. Proceeding in IEEE Xplore.
4. **Abu Sufian**, Anuradha Banerjee, and Paramartha Dutta. "HFAIR: Hello Devoid Optimized Version of FAIR Protocol for Mobile Ad hoc Networks." In *Intelligence Enabled Research: DoSIER*, August 12-13, 2020. Proceeding in Springer AISC Series.
3. **Abu Sufian**, Anuradha Banerjee, and Paramartha Dutta. "A Tree Multicast Routing Based on Fuzzy Mathematics in Mobile Ad-Hoc Networks." In *International Conference on Computer Communication and Internet of Things (ICCCIOT)*, Tripura University, Agartala. Proceeding in Springer LNNS Series, (2020).
2. Farhana Sultana, **Abu Sufian**, and Paramartha Dutta. "Advancements in Image Classification using Convolutional Neural Network." In *4th International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN)*, hosted at RCC Institute of Information Technology, Kolkata, IEEE Xplore, (2018).
1. **Abu Sufian**, Anuradha Banerjee, and Paramartha Dutta. "FSNRP: Fuzzy-controlled Priority Scheduling of Non-real Time Data Packets in Mobile Ad-hoc Networks." In *11th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Bhubaneswar, India. December 17-20, 2017. Proceeding in IEEE Xplore.

List of Book Chapters

5. Krishna K Paul, Jishnu D Roy, Sourav Sarkar, Sena K Barai, **Abu Sufian**, Sachin K Gupta, and Ashutosh Srivastava. “Smart Agriculture Using UAV and Deep Learning: A Systematic Review.” In *Internet of Things (1st Edition)*, Taylor & Francis, Chapter 1, pp. 1–16, (2022).
4. **Abu Sufian**, Ekram Alam, Anirudha Ghosh, Farhana Sultana, Debasish De, and Mianxiong Dong. “Deep Learning in Computer Vision through Mobile Edge Computing for IoT.” *Mobile Edge Computing*, Springer, Chapter 18, pp. 443–471, (2021).
3. Farhana Sultana, **Abu Sufian**, and Paramartha Dutta. “A Review of Object Detection Models based on Convolutional Neural Network.” In *Intelligent Computing: Image Processing Based Applications*, Springer, Chapter 1, pp. 1–16, (2020).
2. **Abu Sufian**, Dharm Singh Jat, and Anuradha Banerjee. “Insights of Artificial Intelligence to Stop Spread of COVID-19.” In *Big Data Analytics and Artificial Intelligence Against COVID-19: Innovation Vision and Approach*, Springer, Chapter 11, pp. 177–190, (2020).
1. Anirudha Ghosh, **Abu Sufian**, Farhana Sultana, Amlan Chakrabarti, and Debasish De. “Fundamental Concepts of Convolutional Neural Network.” In *Recent Trends and Advances in Artificial Intelligence and Internet of Things*, Springer, Chapter 36, pp. 519–567, (2020).

List of Projects/Grants

5. Future Artificial Intelligence Research – FAIR, Prot. CNRISASI n. 17591 del 24/01/2023 (Partenariato esteso 01: Intelligenza Artificiale: Aspetti Fondazionali – PE 0000013, CUP B53C22003630006). Lettera di incarico Prot. N. 0068651 del 08/03/2023 UOR SI000002.
Funding Body: The European Union NextGenerationEU.
Funding Amount: 581,949.52 Euro.
Research Task: Fundamentals of Computer Vision, Pattern Recognition, and Machine Learning for Multimodal Data Analysis in Pervasive Solutions.
Timing: 2023–2025.
Role: CNR Unit Researcher
4. Grant number KFU253123: BSM-DND: Bias and Sensitivity-Aware Multilingual Deepfake News Detection Using Bloom Filters and Recurrent Feature Elimination.
Funding Body: The Deanship of Scientific Research, Vice Presidency for Graduate Studies and Scientific Research, King Faisal University, Saudi Arabia.
Funding Amount: 30,000 SAR.
Timing: 2024–2025
Role: Consultant
3. Project number- INST023: Support vector machine-based energy-efficient management of UAV locations for aerial monitoring of crops over large agricultural lands.
Funding Body: Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia.
Funding Amount: 30,000 SAR.

Timing: 2022–2023

Role: Consultant

2. Project number- INST026: EETO-GA: Energy efficient trajectory optimization of UAV-IoT collaborative system using genetic algorithm.

Funding Body: Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia.

Funding Amount: 30,000 SAR.

Timing: 2022–2023

Role: Consultant

1. Project number- IFT20046: TFBN: A Cost-Effective High-Performance Hierarchical Interconnection Network.

Funding Body: Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia.

Funding Amount: 30,000 SAR.

Timing: 2020

Role: Consultant

List of Administrative Duties Performed

- **Convener** (July 2011 – Feb 2016)

Board of Research Studies, Dept. of Computer Science, University of Gour Banga, West Bengal–732103, India.

- **Joint Convener** (Session 2019–2020)

Post Graduate Admission Committee, University of Gour Banga, West Bengal–732103, India.

- **Coordinator (Head)** (Aug 2017 – Aug 2019)

Department of Computer Science, University of Gour Banga, West Bengal–732103, India.

- **Convener** (Aug 2017 – Aug 2019)

Board of Studies, Dept. of Computer Science, University of Gour Banga, West Bengal–732103, India.

- **Secretary** (Jan 2013 – Feb 2016)

Academic Council, Kanska Rahimia High Madrasah (Higher Secondary), Murshidabad, West Bengal, India.

List of Events Organized

8. Worked as a **Technical Program Committee Member** for organizing the **11th International Workshop on Assistive Computer Vision and Robotics (ACVR 2025)** in conjunction with **ICCV 2025**, Paris, October 2025.

7. Worked as a **Technical Program Committee Member** for organizing the **ICPR 2024 – 2nd Workshop on Fairness in Biometric Systems (FAIRBIO 2024)**, Kolkata, December 1, 2024.

6. Worked as a **Technical Program Committee Member** for organizing the **12th International Workshop on Assistive Computer Vision and Robotics (ACVR 2024)** in conjunction with **ECCV 2024**, Milan, September 29 – October 4, 2024.
5. Worked as a **Technical Program Committee Member** for organizing the **11th International Workshop on Assistive Computer Vision and Robotics (ACVR 2023)** in conjunction with **ICCV 2023**, Paris, October 2023.
4. Worked as a **Joint Convener** for organizing an **IEEE CIS Distinguished Lecture Program (DLP)** titled “Convolutional Networks for Medical Image Analysis: Its Past, Future, and Issues.” A flagship IEEE CIS event held at the University of Gour Banga, in technical collaboration with the IEEE CIS Kolkata Chapter (virtual event), September 17, 2020.
3. Worked as **Organizing Secretary & Program Chair** for the **One-Day Workshop on IoT Analytics & Mobile Crowd Sensing**, organized at the University of Gour Banga, in technical collaboration with the Computer Society of India (CSI) Kolkata Chapter, March 29, 2019.
2. Worked as a **Coordinator** for the **One-Day Special Lecture on Learning using Shallow to Deep Architecture**, organized at the University of Gour Banga, June 15, 2018.
1. Worked as a **Convener** for the **One-Day National Symposium on Recent Trends in Computational Intelligence**, organized at the University of Gour Banga, in technical collaboration with the IEEE CIS Kolkata Chapter, June 15, 2017.

List of Presentations and Invited Talks Given

12.  Oral Presentation at the 13th IEEE International Workshop on Biometrics and Forensics (IWBF 2025), Munich, April 24–25, 2025.
11.  Oral Presentation at the ICPR 2024 Workshop: *FAIRBIO – Fairness in Biometric Systems*, Kolkata, December 1–5, 2024.
10.  Invited Talk on *Best Practices at Different Stages of Machine Learning Models* at the One-Day Seminar on IoT and Machine Learning, organized by the Department of Computer Science and Applications, Malda College, Malda, India, January 10, 2024.
9.  Invited Talk on *Deep Learning in Edge Computing for Vision-based In-home Care: Scopes & Challenges* at the Two-Day National Webinar on Application of Computational Statistics in Modern Era, Vidyasagar University, Midnapore, India, September 2–3, 2022.
8.  Invited Talk on *Deep Learning to Edge Computing to Mitigate Pandemics* at the One-Day Webinar on Efficacy and Importance of IT in COVID-19 Pandemic Condition, organized by the Department of Computer Science and Applications, Malda College, Malda, India, July 28, 2020.
7.  Oral Presentation (Online) at the 55th Annual Conference on Information Sciences and Systems (CISS 2021), hosted by the Department of E.C.E., Johns Hopkins University, with technical co-sponsorship by the IEEE Information Theory Society, March 24–25, 2021.

6.  Oral Presentation at the International Conference on Computer Communication and Internet of Things (ICCCIoT 2020), Tripura University, Agartala, India, February 3–4, 2020.
5.  Invited Talk on *Article Writing Using L^AT_EX* at the National Symposium on Foundation and Advances in Research Methods & Computing (NSFARAC 2019), Raiganj University, India, May 13–14, 2019.
4.  Oral Presentation at the 2nd International Conference on Communication, Devices and Computing (ICCDC 2019), Haldia Institute of Technology (HIT), West Bengal, India, March 14–15, 2019.
3.  Invited Talk on *Technology in Education* at the One-Day International Seminar on ICT, jointly organized by the Department of Mathematics and the Department of Computer Science & Applications, Malda College, West Bengal, India, September 24, 2018.
2.  Oral Presentation at the 1st International Conference on Smart Technologies in Computer and Communication (SmartTech 2017), Amity University Rajasthan, Jaipur, India, March 27–29, 2017.
1.  Oral Presentation at the International Conference on Industry Interactive Innovations in Science, Engineering and Technology (I3SET-2K16), JIS College of Engineering, Kalyani, India, October 25–26, 2016.

List of Short-Term Courses, Trainings, and Workshops Completed

Faculty Training

2. UGC Sponsored Refresher Course in Computer Science and Information Technology at Human Resource Development Centre (HRDC), University of Madras, February 11–24, 2022.
1. UGC Sponsored Faculty Orientation Programme at Human Resource Development Centre (HRDC), Pandit Ravishankar Shukla University, November 9–29, 2019.

Short-Term Courses

8. Self-paced online certification course on “Generative AI: Impact, Considerations, and Ethical Issues,” offered by IBM through Coursera, started in April 2025.
7. Self-paced online certification course on “AI in Healthcare Specialization,” offered by Stanford University through Coursera, 2021.
6. Online four-week certification course on “The Postdoc Academy: Succeeding as a Postdoc,” offered by Boston University with edX, July–August 2020.
5. Three-day “Bhuvan Overview Training” offered by National Remote Sensing Centre, ISRO, India, October 2019.

4. Self-paced online certification course on “Deep Learning Specialization: Master Deep Learning, and Break into AI,” offered by deeplearning.ai through Coursera, March 2019.
3. Four-week NPTEL online certification course on “Machine Learning,” offered by KTH Royal Institute of Technology, Stockholm, February–April 2019.
2. One-week AICTE recognized short-term course on “Python Programming” held at National Institute of Technical Teachers Training & Research, Chandigarh, November 12–16, 2018.
1. Eight-week NPTEL online certification course on “Deep Learning” under NPTEL FDP, offered by Indian Institute of Technology Madras (IIT-M), August–October 2018.

Workshops and Skill Development Programs

6. One-week Advanced Entrepreneurship and Skill Development Programme (A-ESDP) on “Smart Healthcare Systems using IoT and AI/ML,” funded by Ministry of MSME, Government of India, organized by National Institute of Technology Sikkim, February 27–March 2, 2024.
5. Three-day workshop on “Machine Learning and Data Analytics,” organized by the Department of Computer Science & Engineering, Jadavpur University, March 26–28, 2019.
4. One-day symposium on “Some New Research Directions in Machine Learning & Machine Intelligence,” jointly organized by IEEE Kolkata Chapter and Dept. of Computer & System Science, Visva-Bharati University, W.B., February 25, 2017.
3. One-day International Seminar on Intelligent Computing (ISIC 2017), organized by Dept. of Information Technology, Jadavpur University, W.B. under MIC of UGC-II, with technical collaboration of IEEE CIS, Kolkata Chapter, December 16, 2017.
2. One-day seminar on “Big Data Analytics: Research Scopes, Issues, and Challenges,” organized by B.P. Poddar Institute of Management and Technology in collaboration with M.A.K.A.U.T, W.B., August 9, 2017.
1. Two-day workshop on “Scientific Document Writing Using L^AT_EX,” held at Aliah University with CSI, Kolkata Chapter, and Aliah University, Kolkata, February 11–12, 2017.