

## Work Address

### Dream Institute of Technology

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ARUNDHATI ROY

## Objective

Aspire to build a career in a cutting-edge and dynamic environment alongside committed and innovative professionals. Leveraging technical expertise and knowledge in Computer Science and Engineering to contribute to impactful projects, solve complex challenges, and drive innovation. Committed to continuous learning and seeking opportunities to enhance skills while contributing meaningfully to organizational growth and societal betterment.

## Experience

July,2024 - current

**Dream Institute of Technology**

*Asst. Prof. of Computer Science Engineering Department*

## Education

Aug 2022 – July 2024

MTech., in Computer Science & Engineering (CSE) from Maulana Abul Kalam Azad University of Technology, WB  
DGPA: 8.66

Title of Thesis: **“Supervised Regression Based Respiratory Events Detection for Health Monitoring Application”**

Aug 2020 – August 2022

M.Sc. in Computer and Information Science from Raiganj University, WB,  
DGPA: 8.75

Aug 2017 – May 2020

B.Sc. (Hons.) in Mathematics from Kalyani University, WB with First Class.

## Software Proficiency:

Python, MATLAB, Basic Oops, C++, Basic knowledge of the Linux operating system, MS-WORD, MS-EXCEL

## Job Profile

Assistant Professor in CSE Department,  
*Dream Institute of Technology*

## Achievements

- **Silver Medalist** for securing the second-highest rank in M.Sc. in Computer and Information Science at Raiganj University, West Bengal, 2022.
- **Shortlisted as one of the 30 selected participants** all over the India for Seminar on **Earth Observation Data Analysis organized by Indian Statistical Institute, Kolkata** on April 26, 2023
- **Shortlisted** for a one-week training program on **"Hands-On Introduction to Internet of Things with Generative AI and Cloud Computing"** at IIT Kharagpur, scheduled for June 2024.
- **Invited Participant and Contributor** in the International Women's Day 2024 event, themed **"Impact**

the Future," organized by **Google Developers Group Kolkata**.

- **Selected as Mentor** for student teams of **Dream Institute of technology**, participating in the **Smart India Hackathon, providing technical and strategic guidance** for innovative project development, 2024.

#### **Faculty Development Program Attended:**

- Five Days National Level Online Faculty Development Programme (FDP) on " Next-Generation Technologies in Information and Communication" organized by BCET, Durgapur, India, Dept. of Computer Science and Engineering. (05.11.24 – 09.11.24)
- Participated and completed One Week Online Faculty Development Program (FDP) on “Recent Emerging Trends & Applications in Mechanical Engineering” organized by the Department of Mechanical Engineering, Sanaka Educational Trust’s Group of Institutions from (11.11.24 – 15.11.24)
- Participated and completed Five Days National Level Online Faculty Development Programme (FDP) on "Emerging Technologies in Power Energy: Shaping the future of Sustainable Solutions " organized by DIT, Kolkata, India, Dept. of EE. (19.11.24 – 23.11.24).

#### **Training and Internship ( last 3 years):**

- **Training with Certification at IIT Kharagpur:** Completed hands-on training on IoT, Generative AI, AWS, ChatGPT, and Machine Learning, including practical projects.
- **Virtual Internship at Bharat Intern:** Developed Android apps, performed stock price predictions with LSTM, Titanic survival classification, and created web-based projects like a temperature converter and a Netflix-inspired homepage.
- **Industrial Training and Internship with 1Stop (IIT Bhubaneswar Partnership):** Worked on predictive models for diabetes detection, order volume forecasting, and bike-sharing demand analysis using Machine Learning.

#### **Major Workshop/Seminer/Training/ WebinerAttended in the Academic Domain (last 4 years):**

- Participated in the **International Conference on Quantum Information and Quantum Technology 2023, hosted by the Indian Institute of Science Education and Research Kolkat**, West Bengal from 8th May to 15th June 2023, sponsored by the Indian Institute of Science Education and Research Kolkata & I-Hub Quantum Technology Foundation, Pune.
- Successfully completed the online skilling course on AI For INDIA 2.0, organized by Skill India
- Participated as an attendee in the International Conference organized virtually by EduNDI-Inovating Intelligence (Singapore & India) in Association with St. Mary’s Technical Campus Kolkata, WB, India, held on 30th June, 2021.
- Presented research paper titled "**Anomaly Detection in Respiratory Events Using Machine Learning**" in the International Conference on Computational Technologies and Electronics (ICCTE-2023) held at University of North Ben gal, Siliguri, Darjeeling, W.B., India.
- Attended the webinar on “Blockchain’s Future and Emerging Trends” held on August 18, 2023
- Participated as an attendee in the International Symposium on Foundation and Advances in research Methods and Computing (ISFARAC-2021) organized by Raiganj Universty, (24<sup>th</sup> to 25<sup>th</sup> July, 2021)
- Participated as an attendee in the National workshop on Cyber security, law and information assurance (NAWCYSLIA-2021) organized by Raiganj University, Department of CIS, (7<sup>th</sup> March, 2021).
- Participated as an attendee in the 2<sup>nd</sup> International Multidisciplinary Conference on Information Science, Management Research and Social Sciences on 19<sup>th</sup> March, 2021.
- Participated as an attendee in the National workshop Cyber security and Crime (NAWCYSCRI-2021) organized by Science, University of Petroleum and Energy Studies, Uttarakhand, India, on 1<sup>st</sup> May, 2021.
- Successfully completed Chamdrayaan-3 Mahaquiz organized by ISRO, 2023

### **List of Publications:**

1. **“Anomaly Detection in Respiratory Events Using Machine Learning”** Arundhati Roy, Dr. Sriparna Saha, in *Proceedings of International Conference on computational technologies and Electronics (ICCTE 2023)*, published as a CCIS Post-Conference Volume by Springer Nature, 2023
2. **“Supervised Regression Based Respiratory Rate Estimation for Health Monitoring Applications”** Arundhati Roy, Ahana Ghosh, Dr. Sriparna Saha, International Conference on Intelligent Systems and Security (*ICISS, 2024*), accepted for publication in *Intelligent Systems and Security: Proceedings of ICISS 2024*, Springer Proceedings Series, 2024.

### **Subjects taken in UG level**

Computer Organisation (2<sup>nd</sup> year, CSE), Computer architecture (3<sup>rd</sup> year, ECE), Machine Learning ( 4<sup>th</sup> year, CSE)

I affirm that all the information given here is true to the best of my knowledge.

Place: Kolkata

