



# Techno College of Engineering Agartala

An Engineering College affiliated to Tripura University (A Central University),

Approved by AICTE, MHRD, Govt. of India

Website: [www.tiaedu.org](http://www.tiaedu.org)

**Name of the faculty:** Ms. Sourabarna Roy

**Designation:** Assistant Professor

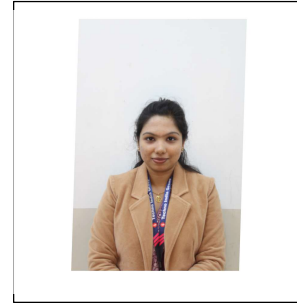
**Education:** MTech, PhD Pursuing

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**Research Interest:**

- Machine Learning
- Deep Learning
- Image Processing

**Professional Experience:**

1. Assistant Professor
  - ✓ Techno College of Engineering Agartala (TCEA)
    - [Joining Date: 06/08/2025]
2. Visiting Lecturer
  - ✓ Techno College of Engineering Agartala (TCEA)
    - [Joining Date: 03/03/2025]
  - ✓ Techno India University Tripura (TIUT)
    - [Joining Date: 03/03/2025]
3. Assistant Teacher Training
  - ✓ National Institute of Technology, Agartala [07/2023-12/2023]
    - Assists in conducting the lab classes of Data Structure & Algorithm and Software Engineering.
4. Business Development Executive
  - ✓ Inmovidu Technologies Pvt Ltd [08/2022-10/2022]
    - Working for very short period on searching for new clients, finding new potential services to offer.



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## **Publishes Journal/ Conference papers/ Book/ Book Chapters :**

- Sourabarna Roy , Tannistha Pal and Swapan Debbarma, (2024), “A Comparative Analysis of Advanced Machine Learning Algorithms to diagnose Parkinson's Disease”, Procedia Computer Science(Elsevier), Volume 235, 2024, Pages 122-131, <https://doi.org/10.1016/j.procs.2024.04.015> (Scopus Journal).
- Sourabarna Roy , Tannistha Pal and Swapan Debbarma, (2025), “Detecting Parkinson disease using various AI enabled methods: Recent advances, requirements and open challenges”, Intelligent System and Data Analysis: SSIC 2023 Doctoral Symposium, Pages 91-106, [https://doi.org/10.1007/978-981-97-5200-3\\_7](https://doi.org/10.1007/978-981-97-5200-3_7)
- Sourabarna Roy, Tina Debbarma, Tannistha Pal and Prakash Duraisamy, (2025), “Investigating the Efficacy of Diverse Machine Learning Classifiers for Parkinson’s Disease Detection”, Conference- ICCCNT 2024- to be published by IEEE , [10.1109/ICCCNT61001.2024.10725945](https://doi.org/10.1109/ICCCNT61001.2024.10725945)
- Debankita Mukhopadhyay, Sourabarna Roy and Partha Pratim Deb, (2023), “Big Data Based Time series Forecasting using FbProphet for the Stock Index” , Book Chapter- published by Taylor & Francis, <https://doi.org/10.1201/9781003279044>
- **Achievements:**
  - Best Project Award 2022 (CSE)
    - ✓ Techno College of Engineering, Agartala
      - “Stock Index Forecasting using Extreme Learning Machine”.