



## CV

Ms. Shrabani Medhi  
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### **PRESENT POSITION:**

Co-Dean, Student Affairs

Assistant Professor, Department of Computer Science & Engineering

### **Institution:**

Girijananda Chowdhury University, Assam

**Date of Joining:** 14 July 2009

### **ACADEMIC AND PROFESSIONAL BACKGROUND**

Ms. Shrabani Medhi is an experienced academician and researcher in the field of Computer Science and Engineering, currently serving as Co-Dean, Student Affairs at Girijananda Chowdhury University, Assam. With more than 16 years of teaching, academic administration, and research experience, she has been actively involved in curriculum development, multidisciplinary teaching, student mentoring, and applied research aligned with regional and societal needs.

### **EDUCATIONAL QUALIFICATIONS**

- Submitted Thesis, Computer Science and Engineering, Assam Science and Technology University
- M.E in Computer Science & Engineering, Gauhati University (2012-2014)
- B.E in Computer Science & Engineering, Anna University (2004-2008)

### **RESEARCH INTERESTS**

- Educational Technology and E-Learning Systems
- Artificial Intelligence and Data Analytics

- Adaptive Learning and Learning Analytics
- Digital Content Development
- AR/VR-based Interactive Learning
- Application of AI in Education and Cultural Preservation

## **PROJECS GRANTED**

- Co-PI of project under Assam Science Technology and Environment Council “Journey Through Assam's Vaishnavite Manuscript Paintings: Bridging Heritage And Tourism With Digital Innovation”

## **REVIEWER EXPERIENCE**

Ms. Medhi serves as a reviewer for reputed scholarly journals, including:

- Information Processing in Agriculture (IPA) – Elsevier
- Journal of Computer Science – Scopus Indexed

## **RESEARCH PUBLICATIONS**

- S. Medhi, D. Sarkar, “Predicting PM2.5 Levels in Guwahati, India Using Conditional Generative Adversarial Networks” in 2<sup>nd</sup> International Conference on Data Driven AI, ICDDA-2025
- S. Choudhury, S. Medhi, S. Roy, S. Das “A Web-Based Framework for Carbon Footprint Calculation and Visualization” in 2<sup>nd</sup> International Conference on Data Driven AI, ICDDA-2025
- S. Medhi, M. Gogoi, “PM2.5 prediction using deterministic machine learning models” in International Conference on Computer Science, Industrial Electronics, 2025
- Homogenous Ensemble Learning for Air Quality Index Prediction” in Hinweis Second International Conference on Networking, Communication and Computing Technology -NCCT, 2023, Scopus Indexed
- S. Medhi, A. Mala, D. Ritushree, “The Role of Artificial Intelligence in Transforming Learning and Teaching Scenario” in International Conference in Beyond Borders and Boundaries: Indigenous Cultures Now and Then, 2024
- S. Medhi “Homogenous Ensemble Learning for Air Quality Index Prediction” in Hinweis Second International Conference on Networking, Communication and Computing Technology -NCCT, 2023, Scopus Indexed
- S. Medhi “Prediction in Multivariate Time Series Data Using Generative Adversarial Network” in Thirteenth International Conference on Recent Trends in Communication and Computer Networks- ComNet 2023, Scopus Indexed
- S. Medhi and M. Gogoi, “Visualization and Analysis of COVID-19 Impact on PM2. 5

Concentration in Guwahati city,” in 2021 International Conference on Computational Performance Evaluation (ComPE), IEEE, 2021, pp. 012–016.2.

- 1. Medhi, S., Kashyap, P., Das, A., & Sarma, J. PM2. 5 Prediction Using Heterogenous Ensemble Learning.
- (1) Medhi S., Gogoi, M, “COMPARISON OF NON-ENSEMBLED AND ENSEMBLED SUPERVISED MACHINE LEARNING TECHNIQUES FOR PM2.5 PREDICTION IN GUWAHATI CITY”, Juni Khyat, Vol. 13, Issue 06 , no. 01, June, 2023, UGC Care list Journal
- P. S. Dutta, S. Medhi, S. Dutta, T. Das, and S. Buragohain, “SMART HEALTH CARE USING DATA MINING,” vol. 4, no. 8, 2017.
- S. Medhi, C. Ahmed, and R. Gayan, “A study on feature extraction techniques in image processing,” *International Journal of Computer Sciences and Engineering*, vol. 4, no. 7, pp. 89–93, 2016.
- Ojah, L., Pathak, A., & Medhi, S. (2016). SMS monitoring system for detecting premium SMS malware in smart phone. *Int'l Journal*, 5(5), 56-59.
- S. Medhi and P. S. Dutta, “Improved Authentication System for Android Smartphone,” vol. 5, no. 5.

#### **WORKSHOPS/ SEMINARS/ FDP/ RESOURCE PERSON**

- Organized “Artificial Intelligence – Research Perspective in Multi-disciplinary fields” sponsored by AICTE-Vibrant Advocacy for Advancement and Nurturing of Indian Languages, New Delhi, 2024
- Participated in “Python for Data Science” under Swayam, 2024
- Resource person in Online Faculty Development Program On “Artificial Intelligence: The Brain Behind Industry 4.0” 1st – 5th September 2025 Organized by Dept. of CSE, Girijananda Chowdhury University, In collaboration with Electronics & ICT Academy, National Institute of Technology Patna
- Participated in “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) Organized by MMTTC, Gauhati University from 03/12/2025 to 12/12/2025.
- Participated in 5-day Face-to-Face UHV-II FDP organized by All India Council for Technical Education (AICTE) at Girijananda Chowdhury University, Guwahati from 8th January to 12th January 2024
- Resource person in 1 Week FDP on “Sensi za on of UHV for effective Teaching Learning Process” will be held from 10th – 14th June 2024.
- Joint coordinator of 1 Week FDP on “Sensi za on of UHV for effective Teaching

Learning Process” will be held from 10th – 14th June 2024.

- Participated in 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 18th December to 22nd December 2023
- Resource person of “Computer knowledge” on 15/2/2023 in the Transitional Curriculum programme of 1<sup>st</sup> Prof. BAMS students of Govt. Ayurvedic College
- Attended workshop on “High End Workshop on Fundamentals of Deep Learning” Jointly organized by IIT Guwahati and RFRF, Nagpur” from 12-18 September, 2022
- Participated in 12 weeks FDP on “Problem Solving Through Programming in C” July-Oct 2022
- Participated in AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Remote Sensing and GIS" from 13/09/2021 to 17/09/2021 at KLS Gogte Institute of Technology, Belagavi

## SWOT ANALYSIS

### Strengths

- Over 16 years of experience in teaching, research, and academic administration
- Currently serving in a leadership role as Co-Dean, Student Affairs
- Strong expertise in Artificial Intelligence, Data Analytics, and Educational Technology
- Proven experience in multidisciplinary and socially relevant research
- Publications in Scopus-indexed conferences, IEEE, and UGC Care journals
- Active reviewer for reputed national and international journals
- Experienced resource person for FDPs, workshops, and academic training programs
- Strong involvement in curriculum development, student mentoring, and institutional activities

### Weaknesses

- High administrative responsibilities limiting dedicated research time
- Limited number of publications in high-impact international journals
- Research largely focused on applied domains with less emphasis on theoretical

contributions

- PhD completion status not yet reflected as awarded

## Opportunities

- Leadership opportunities in AI-driven education and adaptive learning initiatives
- Scope for securing government-funded and sponsored research projects
- Potential to expand existing research into high-impact international journals
- Opportunity to establish and lead interdisciplinary research centres or labs
- Growing demand for AI, AR/VR, and learning analytics in higher education

## Threats

- Increased administrative and institutional challenges associated with leadership roles
- Risk of professional burnout due to multiple concurrent responsibilities
- Rapid evolution of AI technologies requiring continuous upskilling
- Intense competition for research funding and academic recognition