

## CV

**Name:** Ms. Shrabani Medhi  
**Designation:** Assistant Professor  
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**Date of Birth:** 26.07.1985

### Educational Qualifications:

Sl. No	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 <sup>th</sup> Std.	2002	CBSE	
2	HSSLC/10+2 Std.	2004	CBSE	Science
3	Degree (Please Specify)	B.E	Anna University	Computer Science and Engineering
4	Master's Degree (Please Specify)	M.E	Gauhati University	Computer Science and Engineering
6	Ph. D. (Please Specify)	Ph.D (Pursuing)	Assam Science and Technology University	Computer Science and Engineering

**Languages known:** English, Hindi, Assamese  
(Read, Write & Speak)

**Academic/ Administrative Experience:** 16 years

## List of Publications:

### RESEARCH PAPER PRESENTED/ CONTRIBUTED

#### ■ (In International Conferences): Total 04 (Four)

1. Shrabani Medhi, R Boruah, SP Baruah, HK Das “Homogenous Ensemble Learning for Air Quality Index Prediction”, Hinweis Second International Conference on Networking, Communication and Computing Technology -NCCT, 2023
2. Shrabani Medhi, S Kashyap, N Das “Prediction In Multivariate Time Series Data Using Generative Adversarial Network”, Thirteenth International Conference on Recent Trends in Communication and Computer Networks- ComNet 2023
3. Shrabani Medhi, Minakshi 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.
4. 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

#### RESEARCH PAPER PUBLISHED (IN JOURNAL) : Total 08 (Eight) published.

1. Shrabani Medhi, Minakshi Gogoi, “PM2.5 concentration prediction using Generative adversarial network: A novel approach”, *Journal of Applied and Natural Science*, 16(2), 704-712. <https://doi.org/10.31018/jans.v16i2.5510>, (Scopus), 2024
2. Shrabani Medhi, Minakshi Gogoi, “PM2.5 Prediction using Homogenous and Heterogenous Ensemble Learning: A Comprehensive Evaluation”, *Journal of Computer Science*, (Scopus), 2024.
3. Shrabani Medhi, Kashyap, P., Das, A., & Sarma “PM2.5 Prediction using Heterogeneous Ensemble Learning”, *Journal of Artificial Intelligence and Capsule Networks*, 2023.
4. Shrabani Medhi, Minakshi Gogoi, “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
5. P. S. Dutta, S. Medhi, S. Dutta, T. Das, and S. Buragohain, “SMART HEALTH CARE USING DATA MINING,” vol. 4, no. 8, 2017.
6. 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.
7. 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.
8. S. Medhi and P. S. Dutta, “Improved Authentication System for Android Smartphone,” vol. 5, no. 5.

## **BOOK CHAPTERS: TOTAL 04 (FOUR)**

1. Shrabani Medhi, Mala Ahmed, Ritushree Dutta, “The Role of Artificial Intelligence in Transforming Learning and Teaching Scenario”, Beyond Borders and Boundaries: Indigenous Cultures Now and Then, scheduled to take place from 23-24 January, 2024
2. Shrabani Medhi, B.Sc General computer science 3<sup>rd</sup> semester programme, office automation tools unit 5,6,7,8, Krishna Kanta Handiqui State Open University, 2021
3. Shrabani Medhi, M.Sc.IT 3<sup>rd</sup> sem (System analysis and design, unit 9, 10, 12, Krishna Kanta Handiqui State Open University, 2021
4. Shrabani Medhi, Minakshi Gogoi, “Prediction of Air Pollutants using Spatiotemporal Big Data, Methods of Machine Learning and Deep Learning and their Application on Human Health and Environment: A Study”, Advances in Science and Technology, Volume-2-Book, 2nd National Conference on Recent Advances in Science and Technology 2019

### **Research Experience:**

- Doctoral thesis guided :
- Research & Consultancy Projects:
  1. **Co-Principal Investigator** of project “**Journey through Assam’s Vaishnavite manuscript paintings: Bridging heritage and tourism with digital innovation**” funded by Assam Science Technology and Environment Council.

### **Membership of Professional bodies:**

Indian Society of Technical Education (**ISTE**) and United Nations Educational, Scientific and Cultural Organization (**UNESCO**), Guwhati.

### **Award, Fellowship & Recognition:**

GATE qualified in 2012

Date: 28.12.2024

Name: Shrabani Medhi