

CV of Dr. Upasana Sarmah

Name: Dr. Upasana Sarmah
Designation: Assistant Professor
Address for Communication (office): Department of Computer Application
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Date of Birth: 19/12/1991

Educational Qualifications

Sl. No	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 th Std.	2008	SEBA	
2	HSSLC/10+2 Std.	2010	CBSE	Science
3	Degree (B.E.)	2014	Gauhati University	Computer Science & Engineering
4	Master's Degree (M.Tech in IT)	2017	Tezpur University	Information Technology
6	Ph. D. (in CSE)	2024	Tezpur University	Cyber Security & Machine Learning
7	Post-Doctoral (Please Specify)	-	-	-
8	Others (Please Specify)	-	-	-

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

Academic/ Administrative Experience:

- 2 years teaching experience as Assistant Professor (Guest) in the Department of CSE, Tezpur University.
- Worked as a Teaching Assistant in the Department of CSE, Tezpur University from Autumn, 2016 to Spring, 2017.
- Worked as a Teaching Assistant in the Department of CSE, Tezpur University from Autumn, 2017 to Spring, 2022.

List of Publications:

- “A Simple Routing Algorithm On MultiHop Wireless Networks”, I.Chakraborty, **U. Sarmah**, 9th IEEE International Conference on Intelligent Systems and Control, ISCO, 2015.
- “A survey of Detection Methods for XSS Attacks”, **U. Sarmah**, D.K.Bhattacharyya, J.K Kalita, Journal of Network and Computer Applications, 118, 113-143, 2018.
- “XSSD: A Cross-site Scripting Attack Dataset and its Evaluation”, **U. Sarmah**, D.K. Bhattacharyya, J.K. Kalita, 3rd ISEA Conference on Security and Privacy (ISEA-ISAP), 21-30, IIT Guwahati, 2020.
- “DLCC: Deep Learning in Effective COVID-19 Classification”, **U. Sarmah**, D.K.Bhattacharyya, P. Borah, Acta Scientific Computer Sciences Journal, 4 (4), 41-47, 2022.
- “Cost-Effective Detection of Cyber Physical System Attacks”, **U. Sarmah**, D.K. Bhattacharyya, Advances in Machine Learning for Big Data Analysis, 33-69, 2022.
- “Unmasking the common traits: an ensemble approach for effective malware detection”, P. Borah, **U. Sarmah**, D.K.Bhattacharyya, J.K Kalita, International Journal of Information Security, 1-11, 2024.
- “Ensemble Learning Methods: An Empirical Study”, **U. Sarmah**, D.K.Bhattacharyya, P. Borah, Springer Nature Computer Science Journal, 5(7), 924, 2024.
- “Streamlining HTTP Flooding Attack Detection through Incremental Feature Selection”, **U. Sarmah**, P Borah, DK Bhattacharyya, arXiv preprint arXiv:2505.17077, 2025.
- “TUANDROMD-X: Advanced Entropy and Visual Analytics Dataset for Enhanced Malware Detection and Classification”, P Borah, **U. Sarmah**, DK Bhattacharyya, JK Kalita, arXiv preprint arXiv:2605.06718, 2026.

Google scholar profile link:

<https://scholar.google.co.in/citations?hl=en&authuser=2&user=JBfLR3UAAAAJ>

SCOPUS Author ID: 57140814800

Research Experience:

- **Doctoral thesis guided :** Nil
- **Research & Consultancy Projects:**
 - Worked as a Junior Research Fellow from August, 2017 to February, 2018 in the MHRD sponsored Center of Excellence under FAST project entitled “Machine Learning Research and BiG Data Analysis”, Department of CSE, Tezpur University.
 - Worked as a Senior Research Fellow from February, 2018 to February, 2020 in the MHRD sponsored Center of Excellence under FAST project entitled “Machine Learning Research and BiG Data Analysis”, Department of CSE, Tezpur University.
 - Worked as a researcher from February, 2020 to February, 2023 in MeitY sponsored project “Information Security Education and Awareness, Department of CSE, Tezpur University.
 - Worked as a researcher from 1st April, 2024 to 31st March, 2025 in the MeitY sponsored project titled “Detection of Malware and Malware-based attacks using statistical and Machine Learning Approaches”, Department of CSE, Tezpur University.

Membership of Professional bodies: -

Award, Fellowship & Recognition: -

- NTA – NET (Assistant Professor & Ph.D) Qualified, June 2026 and June 2025

Date: 29/08/2026

Name: Dr. Upasana Sarmah