

Personal Profile



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Educational Profile

Ph.D.	North Eastern Hill University, Shillong, Assam; Year of award:2018 Supervisor: Prof. Hemanta Kr. Kalita
MCA	North Eastern Hill University, Shillong, Assam; Year of award:2010 Subject: Computer Applications Specialization: Computer Network/Machine Learning
B.Sc(Electronics)	Gauhati University, City:Guwahati, State:Assam; Year of award:2007 Subject:Electronics

Professional Experience

Assistant Professor , Department of Computer Science & Engineering, Rajiv Gandhi University, Arunachal Pradesh, India	September, 2021-till date
Assistant Professor , Department of Computer Application, Assam Don Bosco University, Assam, India	March , 2011- September, 2021
Assistant Professor , Department of Computer Science, St. Anthony's College, Meghalaya, India	August, 2010- February, 2011

Administrative Experience

Organizing Member, 1 st International Conference on Emerging Global Trends in Engineering and Technology,2020	6-7 th March, 2020
Organizing Member, National Level Workshop cum Summer Internship on IoT and Web Applications Development 2018	June, 4-15 th , 2018
Organizing Member, National Level Workshop cum Summer Internship on IoT and Web Applications	June 5-17 th ,2017

Development 2017

Organizing Member, National Level Workshop cum Summer Internship on Web Applications Development 2016 30th May - 11th June 2016.

Organizing Member, 2nd National Conference on Emerging Global Trends in Engineering and Technology, 2016 26-27th Feb, 2016

Awards & Honours

NIL

Membership of Professional Bodies

1. TPC member, International Journal of Computing and Digital Systems, 2021.
2. Associate Editor, American Journal of Neural Networks, 2018, India.
3. Associate Editor, ADBU Journal of Engineering and Technology, 2017, India.

Research Interests

- Computer Network Security
- Applications of Machine Learning
- Computer and Digital Forensics
- Internet of Things

Research Publications

1. Rupam Kumar Sharma, Biju Issac, Hemanta Kalita, "Intrusion Detection and Response System Inspired from the Defense Mechanism of Plants", in the "IEEE Access", IEEE. (SCI-INDEXED, IF:4.5(time of publication))
2. Rupam Kumar Sharma, Hemanta Kalita, Biju Issac, "Are Machine Learning based Intrusion Detection System always secure? An insight into tampered learning", in the "Journal of Intelligent and Fuzzy Systems", ISSN:1064-1246, 2018. (SCI-INDEXED, IF:1.65(time of publication))
3. Rahul, Yumlembam, and Rupam Kumar Sharma. "EEG Signal Based Movement Control for Mobile Robots.", in the "Current Science" (SCI-INDEXED, IF:0.88(time of publication))
4. Rupam Kumar Sharma, Hemanta Kalita, Biju Issac, "Plant based biologically inspired intrusion response mechanism: An insight into the

proposed model PIRIDS”, in the “Journal of Information Assurance and Security” , ISSN:1554-1010,vol 11,issue 6,2016 (ESCI-INDEXED)

5. Naosekpm, Veronica, Rupam Kumar Sharma, ”Machine Learning in 3D space Gesture Recognition”, in “Journal of Engineering” (ESCI-INDEXED)

Conference:

6. Sharma, Rupam Kumar, et al. "Android interface-based GSM home security system." Issues and Challenges in Intelligent Computing Techniques (ICICT), 2014 International Conference on. IEEE, 2014.
7. Sharma, Kishor Jyoti, Rupam Sharma, and Rajdeep Das. "A survey of Black hole attack detection in Manet." Issues and Challenges in Intelligent Computing Techniques (ICICT), 2014 International Conference on. IEEE, 2014.
8. Sharma, Rupam Kumar, Hemanta Kumar Kalita, and Biju Issac. "Different firewall techniques: A survey." Computing, Communication and Networking Technologies (ICCCNT), 2014 International Conference on. IEEE, 2014.
9. Sharma, Rupam Kumar, et al. "Learning is never secure: Poison learning by Intrusion Detection System based on Self-Organizing Map." ,International Conference on Computing , Communication and Sensor Network CCSN (2016).

Patent

1. Sharma, Rupam Kumar;Jabbar,MA,”Automated Tea Leaf Harvester”,Application Number-202131050477, Year of Apply:2021

Book/Book Chapter published

Book:

1. Nandi,Gypsy;Sharma, Rupam kumar; *Data Science- Fundamentals and Practical Approaches*, BPB Publication, India, 2020.
2. Sharma, Rupam Kumar; Nandi,Gypsy; *Soft Computing - Fundamentals and Practical Approaches*, Studium Press(India) Pvt. Ltd.,2019.

Book Chapters:

3. Sharma, Rupam Kr, Hemanta Kumar Kalita, and Parashjyoti Borah. "Analysis of machine learning techniques-based intrusion detection systems." Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics. Springer, New Delhi, 2016. Print ISBN:978-81-322-2528-7

4. Sharma, Rupam Kumar, Hemanta Kr Kalita, and Biju Issac. "PIRIDS: A Model on Intrusion Response System Based on Biologically Inspired Response Mechanism in Plants." *Innovations in Bio-Inspired Computing and Applications*. Springer, 2016. 105-116. Print ISBN:978-3-319-28030-1
5. Sharma, Aditya, Ashmita Sarkar, Aazaz Ibrahim, and Rupam kumar Sharma," Smart Refri: Smart Refrigerator for Tracking Human Usage and prompting based on behavioral consumption", *Emerging Technologies for Smart Cities*, LNEE, Springer, 2021.

Research guidance

Post-doc fellow: NIL

Ph.D scholar: NIL

Course/Conference/Workshop organized

1. National Level Workshop cum Summer Internship on Web Applications Development by Department of CSE of Assam Don Bosco University, Assam, India.
Duration: 30th May - 11th June 2016.

Course/Conference/Workshop etc. attended

1. Guest Talk on "FDP on data science and machine learning", by National Institute of Technology, Agartala, 1-5th Feb 2021.
2. Guest Talk on "Signal processing and machine learning", by Assam Don Bosco University, 10-14th August 2020.
3. Invited Talk and training on "Python Programming" conducted at National Institute of Learning (NIL), Rangia to Navodaya PGT Teachers of North-East, Assam -February 2019.
4. Invited Talk on "Cyber Crime and Investigation" conducted at Birla Institute of Technology (BIT-Mesra), Mesra, Ranchi -2017.
5. Invited Talk on 'e-waste management' conducted at St. Anthony's College, Shillong on 23-25 March 2018 organized by NIELIT Kolkata and funded by MHRD
6. Invited Talk on 'IoT (Internet of Things)' in the National Level Workshop cum Summer Internship on Web Applications Development 2017 conducted at Assam Don Bosco University from 05 May to 17 June 2017
7. Invited talk and trainer on "Network Security" conducted at University of Science & Technology, Meghalaya -2016.
8. Invited talk and trainer on "Android App Development" conducted at Dept. Of Computer Science, Guwahati University, Assam -2015.

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9. Invited talk and trainer on “Android App Development” conducted at Dept. Of Computer Science, Central Institute of Technology, Assam -2015.
10. Invited talk and trainer on “Python and Network Security” conducted at Dept. Of Computer Science, Central Institute of Technology, Assam -2016.
11. Invited talk and trainer on “Android App Development” conducted at Dept. Of Computer Science, Assam Down Town University, Assam -2016.
12. Invited talk and trainer on “Android and Python Programming” conducted at Dept. Of Computer Science, UTM, Meghalaya -2015.

Sponsored Project

Title of the project	Funding agency	Year of sanction	Role
“Designing an Automated Tea-harvester”	DSIR	2020	PI
“FriendSpec - Designing a Smart Spectacle for Blind and Visually impaired”	ASTEC	2020	PI
“Chikitsalay - An Artificial Intelligence Powered Healthcare Mobile Application that Supports Local Languages of North-East India”	AICTE	2021	Co-PI
