

Rupam Sharma

Curriculum Vitae

Department of CSE, Rajiv Gandhi University
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📄 <https://sites.google.com/view/rupam-sharma?usp=sharing>

DOB: May 31, 1985



Education

- 2013–2018 **North Eastern Hill University, NAAC A Grade Central University, India, PhD, Computer Science.**
- 2007–2010 **St. Anthony's College, NAAC A++ Graded, Shillong, India, Master of Computer Applications.**
- 2004–2007 **Gauhati University, NAAC A+ Graded State University, Guwahati, India, Bachelor of Science(Electronics).**

Awards

- 2023 **NPTEL Topper, Deep Learning, IIT Madras, Silver Badge.**
- 2010 **MCA Rank Holder, NEHU, Third Rank.**
- 2007 **UG Rank Holder, Gauhati University, Second Rank.**

Certifications

- April 2009 – **Cisco Certified Network Associate, Academic, CISCO.**
April 2010
- April 2008 – **Oracle Certified Associate, Academic, ORACLE.**
April 2009

Books Authored

- 2026 **Gypsy Nandi, Rupam Kumar Sharma, "Data Science Fundamentals and Practical Approaches", Second Edition, BPB PUBLICATIONS.**
- 2020 **Gypsy Nandi, Rupam Kumar Sharma, "Data Science Fundamentals and Practical Approaches", First Edition, BPB PUBLICATIONS.**
- 2019 **Rupam Sharma, Gypsy Nandi, "Soft Computing Techniques: Fundamentals and Practical Approaches", STUDIUM PRESS (INDIA) PVT LTD.**

Patent Granted/FER

- 2021 **Automated Selective Tea Leaf Bud Harvesting Machine, FUNDED-DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, GOVT. OF INDIA.**
Patent Office Journal, India, Patent Application No:202131050477A
- 2025 **Handheld offline translation device for Army Officials, PATENT OFFICE JOURNAL, INDIA, DESIGN PATENT NO:396391001.**

Patent Published

- 2025 **A High current generating portable paper folding solar panel and the method of its manufacture**, ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL, GOVT. OF ASSAM.
Patent Office Journal, India, Patent Application No:202331083924 A

Projects

- 2026 **Cultural Value Orientations and Military Qualities: Mapping regional variations among adolescents and young adults across north east indian states**, FUNDED-DRDO INR:97.50 LAKHS.
Ongoing: Co-PI
- 2026 **Deep Learning-Based Agronomic Innovations for Optimal Maize Breeding to Enhance Yield, Resilience, and Farmer Livelihoods in India**, FUNDED-AICTE INR:29.50 LAKHS.
Ongoing: PI
- 2020 **Designing an automated Tea-Leaf Harvesting System**, FUNDED-DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, GOVT. OF INDIA, INR:2 LAKHS.
Completed: PI
- 2021 **FriendSpec- Designing a smart spectacle for blind and visually impaired**, FUNDED-ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL, GOVT. OF ASSAM, INDIA, INR:3.10 LAKHS.
Completed: PI

Work Experience

- September 2021 – **Assistant Professor**, DEPARTMENT OF CSE, RAJIV GANDHI UNIVERSITY, ARUNACHAL PRADESH, INDIA.
- Present Roles and Responsibilities: Teaching, Research, Examination and Academic Committee Responsibilities
- March 2011 – **Assistant Professor**, DEPARTMENT OF MCA, ASSAM DON BOSCO UNIVERSITY, INDIA.
- September 2021 Roles and Responsibilities: Teaching, Research, Examination and Academic Committee Responsibilities
- August 2010 – **Assistant Professor**, DEPARTMENT OF COMPUTER SCIENCE, ST. ANTHONY'S COLLEGE, SHILLONG, INDIA.
- February 2011 Roles and Responsibilities: Teaching

Journal Publications

- 2026 Rupam Sharma et al. "An Implementation perspective of Blockchain Technology in leveraging Organ Donation in a transparent mode to both patients and donors", Elsevier, Procedia. **SCOPUS**
- 2024 Rupam Sharma et al. "LB-SAM: Local Beam Search With Simulated Annealing for Community Detection in Large-Scale Social Networks", IEEE Access. **SCI(E), IF:4.2**
- 2024 Rupam Sharma et al. "Enhancing disease region segmentation in rice leaves using modified deep learning architectures", Archives of Phytopathology and Plant Protection. **SCOPUS, IF:1.2**
- 2023 Das, Sourav Pratim, et al. "Flexible Triboelectric nanogenerators of Au-g-C₃N₄/ZnO hierarchical nanostructures for machine learning enabled body movement detection." Nanotechnology **SCI(E), IF:3.94**
- 2023 Sharma, R.K.; Issac, B.; Xin, Q.; Gadekallu, T.R.; Nath, K. "Plant and Salamander Inspired Network Attack Detection and Data Recovery Model". Sensors 2023, 23, 5562. <https://doi.org/10.3390/s23125562> **SCI(E), IF:3.8**
- 2022 Sharma, Mayuri, et al. "Ensemble averaging of transfer learning models for identification of nutritional deficiency in rice plant." Electronics 11.1 (2022): 148. **SCI(E), IF:2.9**

- 2019 Rupam Kr Sharma, Biju Issac, Hemanta Kalita, "Intrusion Detection and Response System Inspired from the Defense Mechanism of Plants",in the "IEEE Access".**SCI(E),IF:4.2**
- 2019 Rahul, Yumlembam, and Rupam Kumar Sharma. "EEG Signal Based Movement Control for Mobile Robots.",in the "Current Science".**SCI(E),IF:1.44**
- 2019 Naosekpe,Veronica,Rupam kumar sharma,"Machine Learning in 3D space Gesture Recognition", in "Journal of Engineering",**SCOPUS,ESCI,IF:0.67**
- 2018 Rupam Kr 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",**SCI(E),IF:2.0**
- 2016 Rupam Kr 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,**ESCI,IF:0.5**

Book Chapters

- 2021 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
- 2016 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. 105-116. Print ISBN:978-3-319-28030-1
- 2016 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

Conference Presentations

- 2022 Rupam Kumar Sharma,"DeepFake Forensics Analysis: A Review" in National Conference in Advances in Computing in Science and Technology(ACST-22)
- 2018 Dutta,Pooja, Rupam kr Sharma,et al. "Life Saviour:An IoT based road accident monitoring." International conference on advances in Science and Technology(ICAST)
- 2016 Sharma, Rupam Kumar, et al. "Learning is never secure: Poison learning by Intrusion Detection System based on Self-Organizing Map." CCSN
- 2014 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 Sarma, 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.
- 2014 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.

Invited Talks as Resource Person

- 2025 Invited talk on "Two day Online workshop on Python for social science research and data analysis" by Jyotibharti Institute of Education and Research & MSSV,28-29th May
- 2025 Invited talk on "ICSSR-NERC Sponsored Five Day National Workshop on Design and Development of Library Website Using open source CMS" by Don Bosco College,25-29th March

- 2022 Invited talk on “Machine Learning and its influence in the design of Intelligence Software” on 1st International Conference on Convergence of Interdisciplinary Science by Science Dialectica, 19-20th Feb
- 2021 Guest Talk on “FDP on data science and machine learning” , by National Institute of Technology, Agartala, 1-5th Feb
- 2020 Guest Talk on “Signal processing and machine learning”, by Assam Don Bosco University, 10-14th August
- 2019 Invited Talk and training on “Python Programming” conducted at National Institute of Learning(NIL), Rangia to Navodaya PGT Teachers of North-East, Assam -February
- 2018 Invited Talk on ‘e-waste management’ conducted at St. Anthony’s College, Shillong on 23-25 March organized by NIELIT Kolkata and funded by MHRD
- 2017 Invited Talk on “Cyber Crime and Investigation” conducted at Birla Institute of Technology(BIT-Mesra), Mesra, Ranchi
- 2017 Invited Talk on ‘IoT(Internet of Things)’ in the NIISWAD-17 on Web Applications Development conducted at Assam Don Bosco University from 05 May to 17 June
- 2016 Invited talk and trainer on “Python and Network Security” conducted at Dept. Of Computer Science, Central Institute of Technology, Assam
- 2016 Invited talk and trainer on “Android App Development” conducted at Dept. Of Computer Science, Assam Down Town University, Assam
- 2015 Invited talk and trainer on “Android App Development” conducted at Dept. Of Computer Science, Gauhati University, Assam
- 2015 Invited talk and trainer on “Android App Development” conducted at Dept. Of Computer Science, Central Institute of Technology, Assam
- 2015 m)Invited talk and trainer on “Android and Python Programming” conducted at Dept. Of Computer Science, UTM, Meghalaya

Administrative Responsibilities and Academic Contribution

- 2022 University AQAR(Annual Quality Assurance Report), Criteria 1 co-coordinator
- 2022 Admission Cell of the CSE Department of the University
- 2021 University NAAC(National Assessment And Accreditation Council), Criteria 1 co-coordinator
- 2021 University Web portal Committee Member
- 2018-2022 Mentor of Cyber Security Club