Rupam Sharma

Curriculum Vitae

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DOB: May 31, 1985

Education

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

Certifications

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

Skills & Abilities

Programming Languages	Python, Java, C,C++
Present Day Skills	Machine Learning,Internet of Things
Software	Python Libraries, Android Studio, Packet Tracer, Scapy, Kali Linux

Books Authored

2019	**Rupam Sharma, Gypsy Nandi,"Soft Computing Techniques:Fundamentals and Practical Approaches"**, Studium Press (India) Pvt Ltd.
2020	**Gypsy Nandi, Rupam Kumar Sharma,"Data Sciene Fundamentals and Practical Approaches"**, BPB Publications.

Patent

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

Projects

2020	**Designing an automated Tea-Leaf Harvesting System**, Funded-Department of Scientific and Industrial Research, Govt. of India, INR:2 Lakhs.
	Designed a portable vehicle with electronic and mechanical arm that had both the camera and the blades embedded into it. The deep learning algorithm on identification of appropriate leaves triggered the blades and the cut down leaves were collected in a container

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.

Have worked on developing a smart spectacle that could assist the people in indoor house movement, reading newspapers, books and resturants menus. The spectacle also allows for voice assisted usage of cellular phone for calling and texting a person

Work Experience

September 2021 – Present **Assistant Professor**, Department of CSE, Rajiv Gandhi University, Arunachal Pradesh, India.
Roles and Responsibilities:Teaching, Research, Examination and Academic Committee Responsibilities

March 2011 – September 2021 **Assistant Professor**, Department of MCA, Assam Don Bosco University , India.
Roles and Responsibilities:Teaching, Research, Examination and Academic Committee Responsibilities

August 2010 – February 2011 **Assistant Professor**, Department of Computer Science, ST. Anthony's College, Shillong, India.
Roles and Responsibilities:Teaching

Journal Publications

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 **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.**IF:2.6**

2019 Rupam Kr Sharma, Biju Issac, Hemanta Kalita, "Intrusion Detection and Response System Inspired from the Defense Mechanism of Plants",in the "IEEE Access".**IF:4.0**

2019 Rahul, Yumlembam, and Rupam Kumar Sharma. "EEG Signal Based Movement Control for Mobile Robots.",in the "Current Science".**IF:1.44**

2019 Naosekpem,Veronica,Rupam kumar sharma,"Machine Learning in 3D space Gesture Recognition", in "Journal of Engineering",**SCOPUS**

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",**IF:1.73**

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**

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

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

2018-202   Mentor of Cyber Security Club