Name of Teaching Staff	Dr. Nilesh Marathe	
Designation	Associate Professor	
Department	Computer Science and Engineering (Data Science)	
Date of Joining the Institution	16th December 2022	
Email ID	nilesh.marathe@djsce.ac.in	

Professional Membership	- ISTE (Membership no: LM 93438) - Orcid Id: 0000-0003-1217-0560 - Scopus Id: 55677257200 - Researcher Id: AFG-5604-2022 - Google Scholar Id: bLtB2coAAAAJ
Profile Links	- Web of Science Profile: https://www.webofscience.com/wos/author/record/AFG-5604-2022 - Scopus Author Profile: https://www.scopus.com/authid/detail.uri?authorId=55677257200 - Google Scholar Profile: https://scholar.google.co.in/citations?user=bLtB2coAAAAJ - LinkedIn Profile: https://www.linkedin.com/in/nilesh-marathe/ - Research Gate Profile: https://www.researchgate.net/profile/Nilesh-Marathe
H-Index	- Google Scholar Citation Statistics (Citation Count =324, H-index = 7, I10index = 5) - Scopus Citation Statistics (Citation Count =205, H-index = 6)
Area of Interest	Data Science for Network Security, Computer Networks, Cyber Security, IoT and Cloud Security

Qualifications with Class/Grade:
1. Ph.D. (Computer Engineering), Mumbai University 2020.
2. M E. (Computer Engineering), Mumbai University 2011, First Class.
3. B.E. (Computer Science and Engineering.), Dr. BAMU Aurangabad, 2001, First Class with Distinction.
4. Diploma in Computer Technology, MSBTE, 1998, First Class.

Total Experience in Years: More than 20 years Teaching and 2 Years of Industrial Experience
- Associate Professor, D. J. Sanghvi College of Engineering, Mumbai, from 16/12/2022 to till date
- Associate Professor, MIT Art, Design and Technology University, from 30/03/2021 to 15/12/2022.

- Assistant Professor, Ramrao Adik Institute of Technology, Navi Mumbai, from 07/02/2008 to 27/03/2021.
- Lecturer, SIES Graduate School of Technology, Navi Mumbai, 05/01/2005 to 06/02/2008.
- Lecturer, KES NN Patil College of Engineering, Pen Raigad, 01/02/2003 to 04/01/2005.

Courses Taught:
- E-commerce (PG)
- Storage Area Network (PG)
- Parallel Computing (PG)
- Optimization Techniques (PG)
- Foundations of Data Analysis (UG)
- Network Security (UG)
- Computer Networks (UG)
- CP-I & II (UG)
- Data Communication and Networks (UG)
- Mobile Computing (UG)
- Enterprise Network Design (UG)
- System Security (UG)

Projects Guided:
- B.E. Project: more than 80
- M.E. Project: 12

Certification and Courses Completed:
- **C|EH Global Certified by EC-Council**
- **CCNA Certified Instructor**
  - **CCNAv7-1**: Introduction to Networks
  - **CCNAv7-2**: Switching, Routing, and Wireless Essentials
  - **CCNAv7-3**: Enterprise Networking, Security, and Automation
- **Microsoft Security Associate Certified** Professional
- **Cisco DevNet Associate**
- **Certifications from Simplilearn:**
  - CISM 2018
  - Introduction to Cybersecurity
  - CEH (V10) - Certified Ethical Hacker Training
  - CompTIA Security+ 501
  - CISA 2018 - Whats New
  - CompTIA Network+
- **NPTEL Courses:**
  - Demystifying Network: Silver Badge: Jul-Aug 2019
  - Computer Networks and Internet Protocol: Jul-Oct 2018

	o Cryptography and Network Security: Jan- Apr 2020

PhD Guide ? Give field & University	Approved Ph.D. Guide in Computer Science and Engineering at MIT ADT University.
Ph.D./Project Guided	Ph.D.: Nil Master Level: 15 Students Guided
Papers Published in Journal:	15
Papers Presented in International/ National Conferences	20
Book Chapter	4
Books Published / IPRs / Patents	2 Copyrights and 2 Patents (Published)
Interaction with Professional Institutions	Delivered more than 12 lectures and hands-on sessions at various institutions based on majorly Computers Networks, Network Security, Embedded Security. Also worked as resources person and coordinator for Cummins Employees outreach program "Embedded Security"
Institute/Department Responsibility handled:	1. SPOC for Academic Partner Program for Certifications from CISCO, AWS, BLUEPRISM, REDHAT, POLO ALTO, MICROCHIP 2. UG Coordinator 3. Network Administrator 4. Department TPO 5. Cybersecurity Domain Expert 6. ARC and FC Coordinator for 5 Years

Patents, Copyrights:

    A. Patent:
        a. Published a Patent on "AN EMPIRICAL APPROACH FOR DATA ACQUISITION AND RELIABLE VEHICLE WELFARE" (Application No: 202121006724A Date of Publication:26/02/2021)
    B. Copyright:
        a. Copyright "A NOVEL APPROACH FOR ASSURING QUALITY IN OUTCOME BASED EDUCATION (OBE) SYSTEM". (Registration No: SW-14290/2021, Diary Number : 91/2021-CO/SW, Date of Receipt : 03/01/2021)
        b. Copyright "STANDARD OPERATION PROCEDURE FOR FINAL YEAR PROJECT" (Registration No: L-114188/2022, Diary Number : 28277/2021-CO/L, Date of Receipt : 12/04/2022)

Journal Publications & Conferences:

I. Publications in International Journals:

[1]. N. Marathe and S. K. Shinde, "Multidimensional Multi-Attribute Approach to Counter the Routing Attacks on MANET", Wireless Personal Communications, SpringerNature DOI: 10.1007/s11277-021-08315-4, March 2021.

[2]. Aniruddha R. Jaipurkar, Nilesh Marathe, "An Analytical Review on Packet Analysis for Network Forensics and Deep Packet Inspection in Network", International Journal of Scientific Research in Science, Engineering and Technology, Print ISSN: 2395-1990 | Online ISSN : 2394-4099 (www.ijsrset.com), Volume 9, Issue 4, July-August-2022, Page Number : 147-167, doi : https://doi.org/10.32628/IJSRSET

[3]. Neha K. Kulkarni, Nilesh Marathe, "Tour Planning Chatbot for Tourism and Travel Industry", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 11 Issue 05, May-2022. DOI : 10.17577/IJERTV11IS050168

[4]. Tanmay Doke, Pranav Khismatrao, Vaibhav Jambhale, & Nilesh Marathe, "Phishing-Inspector: Detection & Prevention of Phishing Websites", ITM Web of Conferences, DOI: 10.1051/itmconf/20203203004 Part of ISSN: 2271-2097 32, 03004. 2020.

[5]. N. Marathe and S. K. Shinde, "ITCA, an IDS and Trust Solution Collaborated with ACK Based Approach to Mitigate Network Layer Attack on MANET Routing", *Wireless Personal Communications,* SpringerNature, *Part of ISSN: 1572-834X,* vol. 107, no. 1, pp. 393-416, *DOI: 10.1007/s11277-019-06282-5 ,* Apr 2019.

[6]. S. Patil, N. Marathe and P. Padiya, "Use of RESTful Web Services in Distributed Computing," *International Journal of Computer Science and Information Technology and Security (IJCSITS), Part of ISSN: 2249-9555,* vol. 6, no. 2, pp. 194-197, Mar. 2016.

[7]. P. Patel, N. Marathe and V. Jethani, "Survey of Privacy Preservation in VANETs," *International Journal of Computer Science and Information Technology and Security (IJCSITS), Part of ISSN: 2249-9555,* vol. 6, no. 1, Jan 2016.

[8]. A. Patil, N. Marathe and P. Padiya, "Article: Survey of Different Attacks against Routing Protocols in Ad Hoc Environment," *IJCA Proceedings on International Conference on Advances in Science and Technology,* vol. ICAST 2015, no. 1, pp. 1-7, February 2016.

[9]. S. Kamble, P. Padiya and N. Marathe, "Misbehavior Eviction From Vanets," *International Journal of Advanced Computational Engineering and Networking, Part of ISSN: 2320-2106,* vol. 3, no. 12, pp. 115-119, Dec. 2015.

[10]. Y. Khairnar, N. Marathe and P. Padiya, "Eusor: An Extended Usor Protocol For Manet," *International Journal of Advanced Computational Engineering and Networking,* vol. 3, no. 7, pp. 36-38, July 2015.

[11]. D. R. Choudhury, L. Ragha and N. Marathe, "AODV Improvement by Modification at Source Node and Securing It from Black Hole Attack.," *Int. Journal of Engineering Research and Applications, Part of ISSN: 2248-9622,* vol. 4, no. 8, pp. 190-195, Aug 2014.

[12]. D. Maste, L. Ragha and N. Marathe, "Analysis of Improved Neural MLFQScheduler," *International Journal of Information and Computation Technology., Part of ISSN: 0974-2239,* vol. 4, no. 16, pp. 1611-1624, 2014.

[13]. Vandana Salve, Leena Ragha, Nilesh Marathe, "An Enhanced Secure Routing Algorithm Against Sinkhole Attack In Wireless Sensor Networks", International Journal of Advance Computational Engineering and Networking (IJACEN)-IJACEN, IJACEN-IRAJ-DOIONLINE-1076, Part of ISSN: 2249-9555, Volume-2, Issue-8, pp. - 62-67 (Aug, 2014),

[14]. D. Maste, L. Ragha and N. Marathe, "Intelligent Dynamic Time Quantum Allocation in MLFQ Scheduling," *International Journal of Information and Computation Technology, Part of ISSN: 0974-2239, some* vol. 3, no. 4, pp. 311-322, Nov 2013.

[15]. R. Ujwala, N. Marathe and P. Padiya, "Attribute Reduction based Hybrid Anomaly Intrusion Detection using K-Means and SVM Classifier," *International Journal of Computer Applications, Part of ISSN: 0975 –8887,* vol. 82, no. 15, pp. 32-35, Nov 2013.

II.   Publications in International Conferences:

[1]. N. Marathe and S. Shinde, "CAT, an Collaborative ACK and Trust based approach to counter the network layer attack on MANET routing," in *International Conference on Data Science, Machine Learning and Applications (ICDSMLA 2019), CMR Hyderabad, India*, 2019.

[2]. V. Justin, N. Marathe and N. Dongre, "Hybrid IDS using SVM classifier for detecting DoS attack in MANET application", in *2017 International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)*, DOI: 10.1109/I-SMAC.2017.8058284, EID: 2-s2.0-85034590999, 2017.

[3]. S. P. Bhagat, P. Padiya and N. Marathe, "A Generic Request/Reply based algorithm for detection of black hole attack in MANET," in *2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon)*, DOI: 10.1109/SmartTechCon.2017.8358529, EID: 2-s2.0-85048049447, 2017.

[4]. S. Bhagat, P. Padiya and N. Marathe, "A Generic Request/Reply based algorithm for detection of black hole attack in MANET: Simulation result," in *2017 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, DOI: 10.1109/ICCCNT.2017.8204058, EID: 2-s2.0-850414078632017.

[5]. P. Patil, N. Marathe and V. Jethani, "Preventing DOS MITM Attacks in anonymous location based efficient routing protocol in MANET," in *2016 IEEE International Conference on Engineering and Technology (ICETECH)*, DOI: 10.1109/ICETECH.2016.7569183, EID: 2-s2.0-84991807802, 2016.

[6]. P. Patil, N. Marathe and V. Jethani, "Improved ALERT protocol in MANET with strategies to prevent DOS MITM attacks," in *2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)*, DOI: 10.1109/ICACDOT.2016.7877611, EID: 2-s2.0-850173. 2016.

[7]. S. Patil, N. Marathe and P. Padiya, "Design of efficient web vulnerability scanner," in *2016 International Conference on Inventive Computation Technologies (ICICT)*, *DOI: 10.1109/INVENTIVE.2016.7824873, EID: 2-s2.0-85011096838, 2016.*

[8]. R. Talreja, V. Jethani, N. Marathe and K. Saxena, "A novel approach based on intersection and direction to optimize hard handover in mobile WiMAX," in *2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)*, DOI: 10.1109/ICEEOT.2016.7755104, EID: 2-s2.0-85006746988 2016.

[9]. D. R. Choudhury, L. Ragha and N. Marathe, "Implementing and Improving the Performance of AODV by Receive Reply Method and Securing it from Black Hole Attack," *Procedia Computer Science, DOI: 10.1016/j.procs.2015.03.109, EID: 2-s2.0-84938587292,* vol. 45, pp. 564-570, 2015.

[10]. U. Ravale, N. Marathe and P. Padiya, "Feature Selection Based Hybrid Anomaly Intrusion Detection System Using K Means and RBF Kernel Function," *Procedia Computer Science, DOI: 10.1016/j.procs.2015.03.174, EID: 2-s2.0-84938578413,* vol. 45, pp. 428-435, 2015.

[11]. V. B. Salve, L. Ragha and N. Marathe, "AODV based secure routing algorithm against Sinkhole attack in wirelesses Sensor Networks," in *2015 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, DOI: 10.1109/ICECCT.2015.7226170 EID: 2-s2.0-84954187905, 2015.

[12]. A. Patil, N. Marathe and P. Padiya, "Improved EAACK scheme for detection and isolation of a malicious node in MANET," in *2015 International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT)*, DOI: 10.1109/ICATCCT.2015.7456941, EID: 2-s2.0-84966615505, 2015.

[13]. S. A. Ahir, N. Marathe and P. Padiya, "IAMTT - New Method for Resisting Network Layer Denial of Service Attack on MANET," in *2014 Fourth International Conference on Communication Systems and Network Technologies*, DOI: 10.1109/CSNT.2014.160, EID: 2-s2.0-84902595584, 2014.

[14]. P. M. Rathod, N. Marathe and A. V. Vidhate, "A survey on Finite Automata based pattern matching techniques for network Intrusion Detection System (NIDS)," in *2014 International Conference on Advances in Electronics Computers and Communications*, DOI: 10.1109/ICAECC.2014.7002456 EID: 2-s2.0-84956757423, 2014.

[15]. N. Marathe and D. L. Ragha. andDr. Madhumitta Chatterjee, "PKI and Id based secure communication in VANETS," in *International Conference on Recent trends in information Technology and Computer Science(ICRTITCS-2011)*, 2011.

[16]. N. Marathe and D. L. Ragha. andDr. Madhumitta Chatterjee, "Multilevel Multidimensional Trust Model for Group based Application," in *International Conference on Recent trends in information Technology and Computer Science(ICRTITCS-2011)*, 2011.

III. Publications in Books and Book Chapter:

[1]. Kulkarni, N., Borkar, G., & Marathe, N., "Game Theory Approach for Trust Management in the Realm of IoT. Studies in Systems, Decision and Control", Studies in Systems, Decision and Control,2021 | book-chapter, DOI: 10.1007/978-981-33-4996-4_9, EID: 2-s2.0-85104136348, Part of ISSN: 21984190 21984182341, 145-157, 2021.

[2]. Deshmukh, A., Warang, K., Pente, Y., & Marathe, N., "Violence Detection Through Surveillance System", Advances in Intelligent Systems and Computing, Advances in Intelligent Systems and Computing, 2021 | book, DOI: 10.1007/978-981-15-8289-9_49, EID: 2-s2.0-85098107263, Part of ISSN: 21945365 21945357 1270, 503-511, 2021.

[3]. N. R. Marathe and S. K. Shinde, "Improved ITCA Method to Mitigate Network-Layer Attack in MANET," in Data Communication and Networks, Advances in Intelligent Systems and Computing 2020 | book, DOI: 10.1007/978-981-15-0132-6_16. EID: 2-s2.0-85075671351, Part of ISSN: 21945365 21945357Singapore, 2020.

[4]. A. C. and Nilesh Marathe, D. Jadhav and N. Dongre, "Survey Of Different Countermeasure On Network Layer Attack In Wireless Network," Lecture Notes in Networks and Systems 2020 | book-chapter, DOI: 10.1007/978-981-15-0146-3_7, EID: 2-s2.0-85079283374, Part of ISSN: 23673389 23673370in International Conference on Inventive Communication and Computational Technologies [ICICCT 2019], 2019.

IV. Publications in National Conferences:

[1]. Ganesh Boga, Shirisha Addagatla, Urmit Mahida, Shivam Jaware, Nilesh Marathe, "Trekking route finder", National Students Conference on Frontier in Engineering and Technology (NSCFET 2019), RAIT

[2]. Anuj Sharma, Ramandeep Suri, Nilesh Marathe, "Multiuser Multimedia Player with Facial Recognition", National Students Conference on Frontier in Engineering and Technology (NSCFET 2019), RAIT

[3]. Nilesh Marathe, " A novel approach to image forgery detection", 3rd National Conference NCACIT-18, held on 9th & 10th Feb 2018.

AWARDS/RECOGNITION:

- **DEVNET Associate Instructor Pioneer** - CISCO Awarded - 2020-21
- **NPTEL IIT** Course Successfully Completed
  - Elite Silver - 2019-20
  - Merit - 2018-19
- **Microsoft Security Associate Certified** - 2017-18
- **Avishkaar 2017 University and District Project Competition**, Merit with Third Rank - 2017-18
- **Best Teacher Award** - IT Department, RAIT - 2016-17
- **Certificate of Excellence for R&D Project Work** – RAIT - 2015-16
- **Certificate of Excellence for R&D** – RAIT - 2014-15
- **1st Prize Robotics Teacher Competition Phase I** - IIT Bombay - 2013-14
- **1st Prize Robotics Teacher Competition Phase II** - IIT Bombay - 2013-14
- **Certificate of Excellence for R&D** – RAIT - 2013-14
- **Certificate of Academic Excellence * performer** – RAIT - 2012-13
- **Certificate of Excellence for Project Work for Institute** - RAIT - 2012-13
- **Certificate of Excellence for R&D** – RAIT - 2012-13
- **Certificate of Excellence for R&D** – RAIT - 2011-12