Name of Teaching Staff	:	Prof. Nilesh T. Rathod	
Designation	:	Assistant Professor	
Department	:	Artificial Intelligence and Machine Learning	
Date of Joining the Institution	:	02/01/2023	
Email ID	:	Nilesh.rathod@djsce.ac.in	
Office Contact	:	02242335000	

Google Scholar Link	:	https://scholar.google.com/citations?hl=en&user=zwJsXCwAAAAJ
Researchgate Link:		https://www.researchgate.net/profile/Nilesh-Rathod
ORCID		https://orcid.org/0000-0002-5808-3457
Publons Researcher ID	:	https://www.webofscience.com/wos/author/record/HJI-6424-2023
Qualifications with Class / Grade	:	1. Ph.D.(App), Mumbai University. 2. M.E. (Computer Engineering), First Class with Distinction, VIT Mumbai University, 2015 3. B.E. (Computer Science and Engineering), First Class, AEC Chikhli, Amaravati University, 2004
Total Experience in Years		17 Years and 11 Months

Papers Published in Journal:	:	International 1. Nilesh Rathod and Sunil Wankhade (2022); "Investigation of Optimized ELM using Invasive Weed-Optimization and Cuckoo-Search Optimization"; Nonlinear Engineering, vol. 11, no. 1pp. (Status: Published eSCI and Scopus indexing). 2. Nilesh Rathod and Sunil Wankhade (2022) "Optimizing neural network based on Cuckoo Search and Invasive Weed Optimization using Extreme Learning Machine approach" Neuroscience InformaticsISSN2772-5286, https://www.sciencedirect.com/science Elsevier Journal (Status: Published Science Direct indexed). 3. Nilesh Rathod and Sunil Wankhade (2022) "Quality Analysis of Extreme Learning Machine based on Cuckoo Search and Invasive Weed Optimization" EAI Endorsed Transaction on AI and Robotics (Status: Published and eSCI and Cross Reference Indexed). 4. Nilesh Rathod and Sunil Wankhade (2021), Review of Optimization in Improving Extreme Learning Machine, journal: EAI Endorsed Transactions on Industrial Networks and Intelligent Systems},

		volume={8}, number={28}, publisher={EAI}, journal, doi=10.4108/eai.17-9-2021.170960, ISSN: 2410-0218 (Scopus, DOAJ, DBLP, CrossRef, OCLC Discovery Services, EuroPub, Publons, Dimensions Publicly Available Content Database (ProQuest),Advanced Technologies & Aerospace Database (ProQuest), SciTech Premium Collection (ProQuest), Google Scholar) (Status: Published eSCI and Scopus indexed) 5. Nilesh Rathod, et al. (2021); "Comparative Analysis of Different Classification Techniques"; SN Computer Science 3, no. 1 (2022): 1-6 Springer Journal (Status: Published SCILIT Indexed)
Papers Presented in Conferences		1. Mr. Nilesh Rathod and Dr. Sunil Wankhade (2022), "Classification of data using CSIWO based Extreme Learning Machine" Paper Selected at International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth at Mcts Rajiv Gandhi Institute of Technology, Versova, Andheri west, Mumbai-400053. Date: 22/04/22-23/04/22. 2. Mr. Nilesh Rathod, Dr. Sunil Wankhade, (2021) "Improving Extreme Learning Machine through Optimization: A Review." In the 2021 7 th International Conference on Advanced Computing & Communication Systems (ICACCS), Organized by Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India. Conference Date: 19 – 20 March 2021, IEEE digital Library. (Publisher: IEEE Indexed: Scopus) 3. Mr. Nilesh Rathod, Dr. Sunil Wankhade (2021), "Hybrid optimization-based Extreme Learning Machine for data classification" 62 nd NATIONAL CONVENTION OF INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING ON (29 – 30 January 2021) Organized by Indian Institution of Industrial Engineering (IIIE) Mumbai. Awarded the Second position 4. Rathod, N., & Wankhade, S. B. (2020). Improving Extreme Learning Machine Algorithm Through Optimization Technique. In Advanced Computing Technologies and Applications (pp. 157-163). Advanced Computing Technologies and Applications, Algorithms for Intelligent Systems, ISSN 2524-7565 ISSN 2524-7573 (electronic) Algorithms for Intelligent Systems ISBN 978-981-15-3241-2 ISBN 978-981-15-3242-9 (eBook) https://doi.org/10.1007/978-981-15-3242-9_16 157 Springer, Singapore. (Publisher: Springer Indexed: SCILIT) 5. Rathod, N., & Wankhade, S. B. (2020). An Enhanced Extreme Learning Machine Model for Improving Accuracy," In Integrated Intelligence Enable Networks and Computing eBook ISBN 978-981-336-307-6 DOI https://doi.org/ 10.1007/978-981-33-6307-6 (pp. 796-804). Springer, Singapore. (Publisher: Springer Indexed: SCILIT) **Other Publications (20):**

1. K. Marapalli, A. Bansode, P. Dundgekar and N. Rathod, "AIGER An Intelligent Vehicle for Military Purpose," 2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021, pp. 1052-1057, doi:10.1109/ICACCS51430.2021.9441998. https://ieeexplore.ieee.org/document/9441998. ICACCS 2021, Sri Eshwar College of Engineering, Kondampatti (po), Vadasithur (Via), Kinathukkadavu, Coimbatore-641 202, TamilNadu, INDIA. Scopus Indexed

2. V. Shetty, M. Singh, S. Salunkhe and N. Rathod, "Comparative Analysis of Different Classification Techniques" EASTON 100 - International Conference on Computing Sciences (ICCS), 30th April - 1st May, 2021. International Centre, Dr E Borges Road, Dona Paula, Goa – 403004.

3. Nikita Teke, Shreya Singh, Deepshikha Dubey, Nilesh Rathod, "SMART WASTE DETECTION AND SEGREGATION USING ARTIFICIAL INTELLIGENCE", IJRAR – International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.8, Issue 2, Page No pp.402-409, April 2021, Available at : http://www.ijrar.org/IJRAR21B1283.pdf

4. Rathod, Nilesh, and Sunil B. Wankhade. "Improving Extreme Learning Machine Algorithm Through Optimization Technique." Advanced Computing Technologies and Applications. Springer, Singapore, 2020. 157-163.(Springer)

5. Nilesh Rathod, Jignesh Tailer, Siddhika Tibrewala, Mithil Shah, "American Sign Language Recognition System using CNN" published in Volume 05, Issue-12 in Internation Journal of Research in Engineering and Management (IJREAMV0511260019) ISSN:2454-9150, DOI : 10.35291/2454- 9150.2020.0173 March-2020. (UGC Approved).

6. Nilesh Rathod, Shreyams Shetty, Rinkal Suthar, Janhvi Trivedi "Convolutional Neural Networks for Genre Classification of Movie Posters" International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-05, Issue-12, DOI: 10.35291/2454-9150.2020.0163 March- 2020 (UGC Approved).

7. Nilesh Rathod Siddharth Mundra, Kiran Manjrekar, Nimit Lalwani "HEALTH INVESTIGATION SYSTEM" International Journal for Research in Engineering Application & Management (IJREAM) ISSN: 2454-9150 Vol-05, Issue-11, DOI: 10.35291/2454-9150.2020.0076 Feb 2020 (UGC Approved).

8. Rathod N.T. Harshwardhan Kariwala, Ankita Gosawi, Rohini Kaninde "Remote health monitoring using non invasive mobile technology" in

International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC);., November 2016 Volume 4 Issue 11..,pp ISSN 2321-8169", Impact Factor, : 5.873 9.

9. Rathod N.T. Pooja Kharat, Ameya salvi, Omkar sawant " Vegetation Health Monitoring using Agricultural IOT" in International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)"., November 2016 Volume 4 Issue 11..,pp..... ISSN 2321-8169", Impact Factor, : 5.873

10. Rathod N.T. Ameya Vichare, Ankur Gyani, Yashika Shrikhande, "Derek: A chatbot that shows intelligence in behavior using NLP" in International Journal on Recent and Innovation Trends in Computing and Communication, Volume..4..Issue…3...,..March-2016..,pp..232..-..235... ISSN: 2321-8169", Impact Factor, : 5.873

11. Rathod N.T. Hardik Solanki, Nikhil Kamath, Mahir Shaikh, Aniket pol " Comparison of Routing Protocols in Wireless Sensor Network" in International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) |Vol 5|issue 2|Februwary 2016 222-228, ISSN: 2278 – 1323, Impact factor: 2.793.

12. Rathod N.T. Mehwish Khan ,Sneha Ambavale , Dipika Thakare, "Web Based Private API for Application Integration" in International journal of Computing IFRSA's International Journal Of Computing |Vol 5|issue 4|October 2015 228, ISSN (Print):2231:2153, ISSN (Online):2230:9039, Impact factor: 2.456.

13. Rathod N.T. Akashay Patil, Amay Patil, Afra Qazi (2015), "Fastest Nearest Neighbour Search Using Keywords", International Journal of Computer Science and Mobile Computing (IJCSMC), Volume 4, Issue 3, March 2015, ISSN: 2320-088X, IMPACT FACTOR: 4.277

14. Rathod, N. T. Dr. Seema Shah, Prof kavita Shirsat. (2014),"Interactive Online Training and Placement System"., Published in IJARCSSE Impact Factor 2.080, Vol 3 issue 12 dec 2013 ISSN: 2277 128X

15. Rathod, N. T. Dr. Seema Shah, (2013),"Design Paper Online Training and Placement(OTaP) System"., IFRSA's INTERNATIONAL JOURNAL OF COMPUTING (IIJC) Impact Impact Factor 2.080, Vol 3 issue 4 oct 2013 SSN (Online) : 2230-9039 ISSN (Print) : 2231-2153

16. Rathod, N. T. Palak Kurani and Twisha Ajawani (2014), "An Automated Shopping Executor for Online Shopping", International Conference on Advanced in Computing and Information Technologies (ICACIT™-2014), 18 and 19 December (Friday) 2014, Organized by MCT's Ravij Gandhi Institute of Technology in association with IEEE Bombay section and Proceedings in ELSEVIER journal http://www.elsevierst.com ISBN no. 9789351073000

		17. Rathod, N. T. and. A. Gupta. (2014), "Design paper on WanderNot.", 7th International Conference on Advanced Computing and Communication Technologies (ICACCT™-2013), 16th November (Saturday) 2013. 18. Rathod, N. T. Dr. Seema Shah, (2012), "Critical Comparison on Mobile Agent systems". International Conference on Computational Intelligence and Engineering Applications (ICCIEA-2012), 2012 Conferences: 19. Rathod, N. T. and Sharmila Gaikwad. (2011), "Mobile Agent in Emergency Healthcare system.", International Conference on Advanced Computing and Communication Technologies, 2011. **20.** Rathod, N. T., Sharmila Gaikwad and Dr. Ram Reddy (2011), "Supply Chain Management using OOAD.", International Conference on Advanced Computing and Communication Technologies, 2011.
Area of Specialization		**<u>Artificial Intelligence</u>** **<u>Machine Learning</u>** **<u>Statistics for data science</u>** **<u>Data Analytics</u>**
PhD Guide ? Give field & University	:	**<u>Field</u>**: **-** **<u>University</u>**:
PhDs / Projects Guided	:	**<u>PhDs :</u>** **<u>Projects at Masters level</u>:** **-**
Books Published / IPRs / Patents	:	Books (Editors for conference Proceedings on Springer) **Patent (01):** Invention title: A Hybrid Optimization driven Extreme Learning Machine (ELM) for Enhancing Classification, Applicant details: Nilesh Rathod and Sunil Wankhade. Right number: 2021107084 with Australian Government under Innovative category. (Current Status: Grant). **Copyright (01)** Copyright title: Modified Optimization model for Improving Extreme Learning Machine for data classification, Applicant details: Nilesh Rathod and Sunil Wankhade. Diary number: 16883/2022-CO/L with Government of India copyright office, New Delhi. (Current Status: Waiting)

			Book Chapter: 1. Mr. Nilesh Rathod, Dr. Sunil Wankhade, (2021) "Improving Extreme Learning Machine through Optimization: A Review." In the 2021 7 th International Conference on Advanced Computing & Communication Systems (ICACCS), Organized by Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India. Conference Date: 19 – 20 March 2021, IEEE digital Library. (Publisher: IEEE Indexed: Scopus) 2. Mr. Nilesh Rathod, Dr. Sunil Wankhade (2021), "Hybrid optimization-based Extreme Learning Machine for data classification" 62 nd NATIONAL CONVENTION OF INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING ON (29 – 30 January 2021) Organized by Indian Institution of Industrial Engineering (IIIE) Mumbai. Awarded the Second position. 3. Rathod, N., & Wankhade, S. B. (2020). Improving Extreme Learning Machine Algorithm Through Optimization Technique. In Advanced Computing Technologies and Applications (pp. 157-163). Advanced Computing Technologies and Applications, Algorithms for Intelligent Systems, ISSN 2524-7565 ISSN 2524-7573 (electronic) Algorithms for Intelligent Systems ISBN 978-981-15-3241-2 ISBN 978-981-15-3242-9 (eBook) https://doi.org/10.1007/978-981-15-3242-9_16 157 Springer, Singapore. (Publisher: Springer Indexed: SCILIT). 4. Rathod, N., & Wankhade, S. B. (2020). An Enhanced Extreme Learning Machine Model for Improving Accuracy," In Integrated Intelligence Enable Networks and Computing eBook ISBN 978-981-336-307-6 DOI https://doi.org/ 10.1007/978-981-33-6307-6 (pp. 796-804). Springer, Singapore. (Publisher: Springer Indexed: SCILIT).
Professional Memberships	:		1. LISTE (Indian Society for Technical Education).
Grants fetched	:	Minor Research Grant (University of Mumbai)	Mr. Nilesh Rathod as Principal investigator, Grant Minor Research Project at University of Mumbai on a subject Battery Charger and Radionics using Oscillation Kinetics, January 2017.

Interaction with Professional Institutions	:	**Guest Lectures:** 1. Deliver expert talk at Orientation Program on Sem-V Rev-19'C' Information Technology Sub: Software Engineering, at Mahatma Education Society Pillai College of Engineering, New Panvel on 26/06/21 3.00 pm to 5.00 pm. 2. Delivered invited talk on "Technical Paper Presentation" on 14 th May 2021 for Department of Information Technology Student. 3. Delivered invited talk on Machine Learning Tools at Tiwari College of Engineering.
		Other Achievements and Responsibilities: **Academic Achievements** Award Second place in Technical Paper Presentation at 62nd NATIONAL CONVENTION OF INDIAN INSTITUTION OF INDUSTRIAL ENGINEERING On (29 – 30 January 2021) Organized by Indian Institution of Industrial Engineering (IIIE) Mumbai. **Program Committee Member** Contributed to the reviewing process of 1st IEEE conference on "Convergence to Digital World- Quo Vadis" at Atharva College of Engineering, Malad. **Official Reviewer** 1 Reviewer of Applied Artificial Intelligence Tylor and Francis Journal. 2 Reviewer for International Conference on "Industry 4.0 - Nascent Technologies and Sustainability for Make in India; Initiative" 22nd- 23rd December 2022 SPIT. **Participated as Session Chair :** 1. Invited as a Session Chair International Conference on Emanations in Modern Technology & Engineering (ICEMTE – 2017) Tiwari College of Engineering Mumbai. 2. Invited as a Judge For "Project Competition 2021" at Tiwari college of Engineering Mumbai.
Subjects Taught		**UG Level:** ● Artificial Intelligence and Data Science - I ● Data Science using python ● Software Engineering ● Soft Computing ● Artificial Intelligence and Data Science - II ● Knowledge Management ● Artificial Intelligence

Projects Guided	:	**UG Level: 50 +**
Recommended Students for Higher Education		**Name of the Student** **University of California, San Diego** **Purdue University** **University of California, Santa Barbara** **University of Texas, Dallas** **University of Illinois, Chicago** **University of Minnesota, Twin Cities** **University of North Carolina, Charlotte** **University of Georgia**
Institute/Department Responsibility handled:		**Additional Teaching Related Experience:** 1. Convener (Student Professional body: ABIT at RGIT) 2. Other responsibilities: Web Site Development, Project Coordinator for Final Year BE 3. Software Coordinator, 4. RnD Coordinator 5. Worked as a NBA Co-ordinator for criteria 5 6. Worked as a NAAC Co-ordinator for criteria 6 7. Worked as coordinator for Faculty Development Program at RGIT on Machine Learning with IoT during 16-20 December 2019. 8. Worked as a Senior Supervisor for University Examination. 9. Actively involved and worked for design of course structure, preparation of syllabus for ME Machine Learning Sem-II Computer Engineering and TE Software Engineering Sem V Information Technology, Mumbai University Universities. 10. Working as an Examiner since last 15 years on various Examination Panels of University of Mumbai. 11. Worked as a paper setter and syllabus setter of the different autonomous colleges like Thakur college, KJSCE sion, etc **Major Events Organized (03):** 1. Organized a online FDP on " Trends in Cyber Security" in association with squad infotech 13 th and 14 th june 2020 2. Organized a FDP on "Machine Learning with IOT" in Association with Wiley and Media Seven Craft Andheri, on 16 Dec-20 Dec 2019. 3. Organized a FDP on "Data Science with Python" in Technical Association with ATS InfoTechPvt Ltd between 12-14 july 2018.
Pedagogy Development		1. Actively involved and worked for design of course structure, preparation of syllabus for ME Machine Learning Sem-II Computer Engineering Mumbai University 2. Designed of course structure and preparation of syllabus TE Software Engineering Sem V Information Technology, Mumbai University Universities.