

Curriculum Vitae

Name: Dr. Shivajirao Manikrao Jadhav
Designation: Professor & Head, Department of Information Technology
Address: Dr. Babasaheb Ambedkar Technological University,
 Lonere-402 103, Tq: Mangaon Dist :Raigad M.S., India.
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 Email smjadhav@dbatu.ac.in
Date of Joining in the University: 09.11.2004



Educational Qualifications:

Sr No	Institute / University	Degree	Year	Field of Specialization
1	S. G. G. S. Institute of Engineering & Technology, Nanded	B. E.	11/08/1993	Computer Science Engineering
2	V.J.T.I Matunga, Mumbai	M.E.	22/10/2003	Computer Engineering
3	Dr. B A T University , Lonere	Ph.D.	07/03/2015	Computer Engineering

Work Experience:

Sr.No	Organization	Post	From	To
1	MGM'S College of Engineering & Technology, New Mumbai	Lecturer	22-12-1993	22-1-1999
2	Government Polytechnic, Mumbai	Lecturer	3-2-1999	8-11-2004
3	Dr. Babasaheb Ambedkar Technological University, Lonere	Assistant Professor	9-11-2004	8-11-2007
4	Dr. Babasaheb Ambedkar Technological University, Lonere	Associate Professor	9-11-2007	10-3-2015
5	Dr. Babasaheb Ambedkar Technological University, Lonere	Professor	11-3-2015	Till Date

Significant contribution to teaching/academic environment:

Sr.No	Major Contributions
1	Worked as a HoD during Feb.2008 to August, 2008
2	Working as HoD From Sept. 2013 to Till date
3	Worked as a Computer Center In-Charge during 2007 to 2008 and 1/3/2020 to till date
4	Coordinator, Oracle Workforce Development Program of Oracle University for Students to improve their Placement Matrix
5	Coordinator, UGC InfLibNet's InfoNet facility
6	Coordinator, RailTel Internet Facility
7	Coordinator, E-Learning, Media Center and EduSat Services facility for receiving Video Lectures from NITTTR, Chandigarh
8	Coordinator, Design, Development & Maintenance of University Website
9	Coordinator, Preparation of Database to be published in Commonwealth Universities Year Book 2006
10	Coordinator, Microsoft usage audit and fulfillment of compliances
11	Designed and Develop University Website with the help of IT Alumni Mr. Sunil Chavan in the year 2016 and since then its live and maintained till date

List of portfolios:

1. Coordinator, Internet facility from M/s RailTel India Pvt Ltd (Period: 20th October 2005 to 13th July 2010)
2. Coordinator, Preparation of Database to be published in Commonwealth Universities Year Book-2006
3. In-Charge, University Computer Center (Period: 1st June 2006 to 2nd May 2008)
4. In-Charge, University Computer Center (Period: 24th Feb 2020 to Till date)
5. In-Charge, UGC's InlibNet Facility (Period: 1st November 2006 to 13th July 2010)
6. In-Charge, AICTE EduSat Facility (Period: 1st November 2006 to 13th July 2010)
7. Coordinator, University Website (Period: 1st November 2006 to Till date)
8. Convener of EduSat (AICTE Setup) (Period: 1st July 2007 to 13th July 2010)
9. HoD Department of IT (Period: 7th December 2007 to 7th August 2008)
10. Chairman, BoS B. Tech IT (Period: 7th December 2007 to 7th August 2008)
11. Member, Academic Council (Period: 7th December 2007 to 7th August 2008)
12. HoD Department of IT (Period: 27th September 2013 to 15th June 2020)
13. Chairman, BoS B. Tech IT (Period: 27th September 2013 to 15th June 2020)
14. Chairman, RRC IT (Period: 27th September 2013 to 15th June 2020)
15. Member, Academic Council (Period: 27th September 2013 to 15th June 2020)
16. Member, Central Purchase Committee (Period: 1st Oct 2016 to Till date)
17. Member, IQAC (Period: 13th July 2016 to 20th September 2023)
18. Member, ICT Services Committee (Period: 16th June 2016 to 16th March 2017)
19. Member, ICT Cell (Period: 16th March 2017 to Till date)
20. Member, B. Tech. IT Program Advisory Committee (Period: AY 2018-19)
21. Coordinator, EPS ATM Facility in the University Guest House (Period: 9th Dec 2019 24th Aug 2022)
22. Coordinator, RGSTC University Scheme (Period: 14th Feb 2020 to Till date)
23. Chairman, Technical Committee (Period: 30th September 2020 to 30th June 2022?)
24. Member, Board of Administration (Period: 22nd January 2021 to 3rd January 2022)
25. Member, RUSA Executive Committee (Period: 14th February 2021 to Till date)
26. Member, Executive Committee of the Incubation Centre (Period: 14th February 2021 to Till date)
27. Member, RUSA Project Monitoring Committee (Period: 14th February 2021 to Till date)
28. Member, NAAC Steering Committee (Period: 16 December 2021 to Till date)
29. Member Secretary, RGSTC Project Appraisal Committee (Period: 6th June 2022 to Till date)
30. Member Secretary, RGSTC Peer Committee (Period: 6th June 2022 to Till date)
31. Member, Service Rules draft committee (Period: 14th Nov 2022 to Till date)
32. Member, DPC for IQAC (Period 23rd Nov 2022 to Till date)
33. Member, In-house S/w development committee (Period: 14th Dec 2022 to Till date)
34. HoD Department of IT (Period: 3rd July 2023 to Till date)
35. Member, Student Counseling Cell (A.Y. 2023-24 to Till date)
36. Chairman, BoS B. Tech IT (Period: 3rd July 2023 to Till date)
37. Chairman, RRC IT (Period: 3rd July 2023 to Till date)
38. Member, Academic Council (Period: 3rd July 2023 to Till date)
39. Co-coordinator, IQAC (Period: 20th September 2023 till date)
40. Member, IQAC (Period: 20th September 2023 till date)
41. Coordinator, RUSA Project (RUSA 2.0 (Infrastructure Grants to Universities))
42. Member, University Library Committee (Period: 17th January 2024 to 2025)
43. Member, Executive Council (Period: 23rd February 2024 to Till date)

Research Interests:

- Soft Computing and Machine Learning, ANN
- Biomedical Signal Analysis
- Data Science and Visualization
- Cyber Security

List of Workshops/STTPs Conducted:

SrNo	Name of Course	Institute/Organization	Role
1	Orientation course for Engineering faculty	Jointly by Dr. BATU, Lonere and NITTTR, Bhopal	Coordinator
2	One Day Workshop on Migration to Open Source Platform (For Second Year Students)	Department of IT through TEQIP – II	Coordinator
3	Two Day Workshop on Migration to Open Source Platform	Jointly by Department of IT and Computer Engg. Through TEQIP – II	Coordinator
4	Organization expert lecture sessions to students from industry persons	Department of IT	Coordinator
5	Actively Participated in Improving IT Industry Relationship	Department of IT	Coordinator
6	Pear Team Member NAAC	SMK Fomra Institute Of Technology, Kalambkkam, Chennai (7 th - 8 th June 2019)	Team Member
7	Cyber Security	AICTE ATAL program in Dr. BATU Lonere 6 th to 10 th January 2020	Coordinator
8	Intellectual Property Rights	AICTE ATAL program in Dr. BATU Lonere 24 th February to 1 st March 2025	Coordinator

Recently Taught Courses:

Sr.No	UG(Title)	PG(Title)
1	<ul style="list-style-type: none"> <input type="checkbox"/> Intelligent Systems <input type="checkbox"/> Discrete Mathematics <input type="checkbox"/> Cyber Laws <input type="checkbox"/> Advanced Database Management Technology <input type="checkbox"/> Neural Networks & Fuzzy Systems <input type="checkbox"/> Database management systems <input type="checkbox"/> Computer Networks <input type="checkbox"/> Computer Programming in C 	<ul style="list-style-type: none"> <input type="checkbox"/> Advanced Database Management Technology <input type="checkbox"/> Software Engineering <input type="checkbox"/> Mobile Communications

Membership of Professional Bodies:

Sr.No	Membership
1	Life Member of CSI, ISTE
2	IEEE Computer Society

List of Publications:

A: Publications in Refereed International Journals:

1. Nanda R. Wagh, Sanjay R. Sutar, V. J. Kadam, S. M. Jadhav, A. S. Yadav, V. S. Pawar (2025) *Evaluation of IoT based smart safety systems for women and children using machine learning techniques*, Scientific Reports, Nature Publishing Group (SCI-Indexed Journal).
2. Roshan R. Kotkondawar, Sanjay R. Sutar, Arvind W. Kiwelekar, Vinod J. Kadam, Shivajirao M. Jadhav (2025), *A generative framework for enhancing drug target interaction prediction in drug discovery*, Scientific Reports, Vol. 15, Article No. 35588 (SCI-Indexed Journal, Springer Nature).
3. The rise of generative AI frameworks in drug discovery RR Kotkondawar, SR Sutar, AW Kiwelekar, VJ Kadam, SM Jadhav International Journal of Data Science and Analytics, 1-22
4. Maahi Amit Khemchandani, Shivajirao Manikrao Jadhav, B. R. Iyer (2020) Brain Tumor Segmentation and Identification Using Particle Imperialist Deep Convolutional Neural Network in MRI Images International Journal of Interactive Multimedia and Artificial Intelligence, Vol. 7, N^o7
5. Kadam V. J., Jadhav Shivajirao M., K. Vijayakumar (2019) Breast Cancer Diagnosis Using Feature Ensemble Learning Based on Stacked Sparse Autoencoders and Softmax Regression, Journal of Medical Systems, Volume 43, Issue 8, Article number 263, ISSN: Print 0148-5598 Online 1573-689X, DOI: 10.1007/s10916-019-1397-z, Publisher: (Springer), Indexed in: SCI
6. Kadam V. J., Jadhav Shivajirao M. (2019) Optimal weighted feature vector and deep belief network for medical data classification, International Journal of Wavelets, Multiresolution and Information Processing, Volume 18, Issue 2, pages 2050006, ISSN: Print 0219-6913 online 1793-690X, DOI: 10.1142/S021969132050006X, Publisher: (World Scientific), Indexed in SCI
7. Kadam V. J., Jadhav S.M. (2020) Performance analysis of hyperparameter optimization methods for ensemble learning with small and medium-sized medical datasets, Journal of Discrete Mathematical Sciences and Cryptography, Volume 23, Issue 1, pages 115-123, ISSN: Print 0972-0529 Online 2169- 0065, DOI: 10.1080/09720529.2020.1721871, Publisher: (Taylor & Francis), Indexed in SCI
8. Kadam, Vinod, Shivajirao Jadhav, Samir Yadav (2020) Bagging-based ensemble of support vector machines with improved elitist GA-SVM features selection for cardiac arrhythmia classification, International Journal of Hybrid Intelligent Systems Preprint (2019): 1-9, DOI: 10.3233/HIS-190276, Publisher: (IOS Press)
9. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Feature elimination based random subspace ensembles learning for ECG arrhythmia diagnosis", Springer Journal of Soft Computing, Vol: 18(3), 579 – 587 SCI
10. Kadam V.J., Jadhav S.M. (2019) Feature Ensemble Learning Based on Sparse Autoencoders for Diagnosis of Parkinson's Disease. In: Iyer B., Nalbalwar S., Pathak N. (eds) Computing, Communication, and Signal Processing. Advances in Intelligent Systems and Computing, vol 810. Springer, Singapore
11. Yadav, S.S., Jadhav, S.M., " Deep convolutional neural network based medical image classification for disease diagnosis", Springer Journal Big Data 6, 113 (2019). <https://doi.org/10.1186/s40537-019-0276-2> SCI
12. Kadam V.J., Yadav S.S., Jadhav S.M. (2020) Soft-Margin SVM Incorporating Feature Selection Using Improved Elitist GA for Arrhythmia Classification. In: Abraham A., Cherukuri A., Melin P., Gandhi N. (eds) Intelligent Systems Design and Applications. ISDA 2018 2018. Advances in Intelligent Systems and Computing, vol 941. Springer,

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13. Samir S Yadav, Shivajirao M. Jadhav, "Machine Learning Algorithms for Disease Prediction Using Iot Environment"; International Journal of Engineering and Advanced Technology; Vol 8; Issue 6 Pages: 4303-4307 Aug 2019/10.
14. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Performance Evaluation of Multilayer Perceptron Neural Network Based Cardiac Arrhythmia Classifier", International Journal of Computer Engineering & Technology (IJCET) ISSN 0976 -6367(Print) ISSN 0976 - 6375(Online), Vol. 3, Issue 2, July - September 2012, Pages: 01-11
15. Shivajirao M Jadhav, Sanjay L Nalbalwar and Ashok A Ghatol, "Artificial Neural Network Models based Cardiac Arrhythmia Disease Diagnosis from ECG Signal Data", International Journal of Computer Applications, Volume: 44, Number: 15, Pages: 8-13, Issue: April 2012, Published by Foundation of Computer Science, New York, USA
16. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Modular Neural Network based Arrhythmia Classification System using ECG Signal Data", International Journal of Information Technology & Knowledge Management, ISSN 0973-4414, Volume: IV, No.:1, January-June 2011, Pages:205-209
17. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Performance Evaluation of Multilayer Perceptron Neural Network Based Cardiac Arrhythmia Classifier", International Journal of Computer Engineering and Technology (IJCET), ISSN 0976 – 6367(Print) ISSN 0976 – 6375(Online) Volume 3, Issue 2, July- September (2012), pp. 01-11

B: Publications in International Conferences:

1. Transformer Generative AI Model for Enhanced Molecular Property Prediction RR Kotkondawar, SR Sutar, AW Kiwelekar, SM Jadhav, 2025, International Conference on Data Science and Applications, 79-90
2. Securing Critical Infrastructure: A Comprehensive Exploration of Modern SCADA Risk Management Strategies SR Hivre, SM Jadhav, S Shahapure, SM Mhatre, VJ Kadam 2024 IEEE International Conference on Blockchain and Distributed Systems
3. Brain Tumor Segmentation using U-Net and SegNet P Kasar, S Jadhav, V Kansal International Conference on Signal Processing and Computer Vision
4. Samir S Yadav, Shivajirao M Jadhav, Snigdha Nagrale, Niraj Patil, " Application of Machine Learning for the Detection of Heart Disease", IEEE 2020 2nd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA) 2020; Pages: 165-172
5. Samir S Yadav, Vinod J Kadam, Shivajirao M Jadhav, " Comparative Analysis of Ensemble Classifier and Single Base Classifier in Medical Disease Diagnosis", Springer International Conference on Communication and Intelligent Systems, Pages: 475-489 Date: 2019/11/9
6. Vinod J Kadam, Atharv A Kurdukar, Shivajirao M Jadhav, "An Expert Diagnosis System for Parkinson's Disease Using Bagging-Based Ensemble of Polynomial Kernel SVMs with Improved GA-SVM Features Selection", Proceeding of International Conference on Computational Science and Applications, Springer 2020, Pages 227-234
7. Vinod Kadam, Samir Yadav, and Shivajirao Jadhav, "Soft-Margin SVM incorporating Feature Selection using Improved Elitist GA for Arrhythmia Classification" 10th World Congress on Nature and Biologically Inspired Computing (NaBIC 2018), December 6-8, 2018, Vellore Institute of Technology, Vellore, India

8. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Artificial Neural Network Based Cardiac Arrhythmia Disease Diagnosis", 2011 International Conference on Process Automation, Control, and Computing Coimbatore India, IEEE PACC 2011, Pages 1-6
9. Jadhav, S.M.; Nalbalwar, S.L.; Ghatol, A.A.; "ECG arrhythmia classification using modular neural network model," Biomedical Engineering and Sciences (IECBES), 2010 IEEE EMBS Conference on, pp.62- 66, Nov. 30 2010-Dec. 2 2010
10. Jadhav, S.M.; Nalbalwar, S.L.; Ghatol, A.A.; "Arrhythmia disease classification using Artificial Neural Network model," Computational Intelligence and Computing Research (ICCIC), 2010 IEEE International Conference on, pp.1-4, 28-29 Dec. 2010
11. Jadhav, S.M.; Nalbalwar, S.L.; Ghatol, A.A.; "Generalized Feedforward Neural Network based cardiac arrhythmia classification from ECG signal data," Advanced Information Management and Service (IMS), 2010 6th International Conference on, pp.351-356, Nov. 30, 2010-Dec. 2, 2010
12. Jadhav, S.M.; Nalbalwar, S.L.; Ghatol, A.;, "Artificial Neural Network based cardiac arrhythmia classification using ECG signal data," Electronics and Information Engineering (ICEIE), 2010 International Conference On, pp.V1-228-V1-231, 1-3 Aug. 2010
13. Shivajirao Jadhav, Sanjay Nalbalwar and Ashok Ghatol, "Modular neural network model based foetal state classification", Bioinformatics and Biomedicine Workshops (BIBMW), 2011 IEEE International Conference on, Atlanta, Georgia, USA, November 12-15, 2011, pp.915-9

