

## BIO-DATA



<b>1.</b>	<b>Name</b>	Dr. Shubhangi Liladhar Vaikole					
<b>2.</b>	<b>Designation</b>	Professor and Head of Information Technology Department					
<b>3.</b>	<b>Residential Address</b>	B204, Swastik Apartment, Opposite Bhoomi Colossa, Sector 19, Airoli, Navi Mumbai-400708					
<b>4.</b>	<b>Date of birth</b>	03 <sup>rd</sup> July 1981					
<b>5.</b>	<b>Total Experience</b>	19 Years					
<b>i.</b>	<b>Teaching</b>	19 Years					
<b>ii.</b>	<b>Industrial</b>	Nil					
<b>6.</b>	<b>Qualifications</b>						
	<b>Exam Passed</b>	<b>Year</b>	<b>Institution/ University</b>	<b>Branch/Specialization</b>	<b>Percentage/CGPI</b>		
	Ph.D.	2016	Mumbai University	Computer Engineering	Awarded		
	M.E.	2008	Mumbai University	Computer Engineering	72.59		
	B.E.	2003	Mumbai University	Computer Engineering	67.03		
<b>Additional Qualification:</b>							
<b>7.</b>	<b>Employment Record</b>						
	<b>Institution</b>	<b>Year (From To)</b>		<b>Designation</b>			
	Fr. Conceicao Rodrigues Institute of Technology, Vashi	01/11/2022 To Till date		Professor and Head of Department			
	Datta Meghe College of Engineering, Airoli	11/01/2017 To 31/10/2022		Associate Professor			
	Datta Meghe College of Engineering, Airoli	04/07/2005 To 10/01/2017		Assistant Professor			
	Konkan Gyanpeeth College of Engineering, Karjat	01/10/2003 To 03/07/2005		Lecturer			
<b>8.</b>	<b>Undergraduate / Postgraduate Teaching Experience and Subjects Taught</b>						
	<b>Subjects Taught at UG level</b>						
	Sr.No.	Name of Subject			Semester		
	1	Machine Learning			VII		
	2	Artificial Intelligence			VI		
	3	Artificial Intelligence and Soft Computing			VII		
	4	Soft Computing			VIII		
	5	Computer Vision			VIII		
	6	Image Processing			VII		
	7	Neural Network and Fuzzy System			VIII		
	<b>Subjects Taught at PG level</b>						
	Sr.No.	Name of Subject			Semester		
	1	Image Analysis and Interpretation			I		
	2	Object Oriented Analysis and Design			I		
	3	Advanced Database Systems			II		
	4	Advanced Soft Computing			II		
<b>9.</b>	<b>Research Experience: 06 Years</b>						
<b>10.</b>	<b>Research Funding / Consultancy Services:</b>						
	Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees	Period
	NIL						

	<b>Research Grants:</b>					
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
	NIL					
	<b>Technical Collaboration / Lab Funding with Industries</b>					
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year	
	NIL					
<b>11.</b>	<b>Professional Societies Fellowship / Membership:</b> 1. Member of "Computer Society of India(CSI)"					
<b>12.</b>	<b>Achievements / Awards / Position:</b>  1. Best Paper award in ICTEAM-2022. 2. Awarded 1st place along with the prize money of 60,000/- as an Outstanding innovator in Researcher category for my research work on "Recognition of Human Mental Stress Using Machine Learning Paradigms" at PRISM 2021 on December 14 2021. 3. Best Paper award in ICATE-2019 and ICATE-2018. 4. Member of Reviewer Committee 5. Recognized P.G. Guide in University of Mumbai 6. Recognized Ph.D. Guide in University of Mumbai					
<b>13.</b>	<b>Projects guided in UG/PG level:</b> 51 at UG level and 12 at PG level  <b>Research Scholar Working (Ph. D.): 03</b> 1. Mrs. Megha Gupta working on Recognition of Human Mental Stress using Machine Learning Paradigms. 2. Mrs. Vaishali Shinde working on Clinical Risk Prediction from Heterogeneous Data with Deep Learning Approach. 3. Mrs. Prajka Bhangale working on Performance Evaluation and Enhancement of Cryptographic Techniques for Geospatial Data.					
<b>14.</b>	<b>Short Term Training Programmes attended:</b>  1. "Introduction to Machine Learning", 8 weeks at NPTEL- Grabbed Elite Certificate 2. "UHV", 5 days at AICTE 3. "Refresher Part 1-UHV", 5 days at AICTE 4. "Outcome based Education" 20 days at DYPCOE, Pune- Grabbed Advanced learner badges 5. "IFDP on OE4BW(PO7)", 31 days at DYPCOE, Pune- Grabbed Advanced learner badges 6. "IFDP on OE4BW(PO11)", 45 days at DYPCOE, Pune 7. "Emerging Trends in Computer Engineering", 4 days at DMCE, Airoli 8. "Moddle Management System", 5 days at DMCE, Airoli 9. "Innovative Trends in Engineering And Technology", 5 days at SLRTCOE, Mumbai 10. "Outcome based Education" 10 days at DMCE, Airoli					

	<p>11. “Digital Transformation in Teaching Learning Process”, 5 days at FRCRCE, Bandra</p> <p>12. “Pedagogy of Teaching and Tools on E-Content Development for Effective Teaching”, 10 days at Christopher Arts &amp; Science College, Tamilnadu</p>
<b>15.</b>	<p><b>List of Journal Papers Published</b></p> <ol style="list-style-type: none"> <li>1. Megha V. Gupta, <b>Shubhangi L. Vaikole</b>,” A Parallel Fusion RNN-LSTM Approach to Classify Mental Stress using EEG Data”, International Journal of Engineering Trends and Technology, Volume 70 Issue 10, 285-297, October 2022.</li> <li>2. Sachin M. Shinde, Mohit Diwan, Ramendra Singh Niranjana, <b>Shubhangi Vaikole</b>, R. Ramesh, “Geometric optimization of compressor head fin body for effective heat transfer by finite element method”, International Journal on Interactive Design and Manufacturing (IJIDeM), Springer, October 2022</li> <li>3. Megha V. Gupta, <b>Shubhangi Vaikole</b>, Ankit D. Oza , Amisha Patel , Diana Petronela Burduhos-Nergis, Dumitru Doru Burduhos-Nergis,” Audio-Visual Stress Classification Using Cascaded RNN-LSTM Networks”, Bioengineering, September 2022, 9(10), 510</li> <li>4. Mrs. Megha V. Gupta, <b>Dr. Shubhangi Vaikole</b>, “Detection of Human Mental Stress Using Speech Signals” International Journal of Special Education (IJSE), ISSN 0827-3383 , Vol. 37 No. 3 (2022)</li> <li>5. Mrs. Megha V. Gupta, <b>Dr. Shubhangi Vaikole</b>, "Audio Signal Based Stress Recognition System using AI and Machine Learning" Journal of Algebraic Statistics, Volume 13, No.2 , p. 1731 - 1740 ISSN: 1309-3452</li> <li>6. <b>Dr. Shubhangi Vaikole</b>, Yash Changare, "Algorithmic Trading System", Journal of Algebraic Statistics Volume 13, No. 2, 2022, p. 1805 - 1810 ISSN: 1309-3452</li> <li>7. <b>Dr. Shubhangi Vaikole</b>, Makrand Bhalerao, Parth Nimbalkat, Soham Moghe, " Classification of Traffic Signs Using Convolutional Neural Networks”,Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1764 - 1769 , ISSN: 1309-3452</li> <li>8. <b>Dr. Shubhangi Vaikole</b>, Makrand Bhalerao, Parth Nimbalkat, Soham Moghe, " Classification of Traffic Signs Using Convolutional Neural Networks”,Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1764 - 1769 , ISSN: 1309-3452</li> <li>9. <b>Dr. Shubhangi Vaikole</b>, Smaran Ummadishetty, Anushka Vaidya, ChaitanyaKeerthi, " Mental Health Diagnostic system using Machine Learning Model," , Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1751 – 1756, ISSN: 1309-3452.</li> <li>10. <b>Dr. Shubhangi Vaikole</b>, " Spatial clustering with dynamic hops for data routing in WSN for enhanced QoS metrics " Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1715 - 1730, ISSN: 1309-3452.</li> <li>11. <b>Dr. Shubhangi Vaikole</b>,” Segmentation of Moving Object captured using Moving Camera" Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1757 - 1763, ISSN: 1309-3452.</li> <li>12. Prajкта Bhangale, <b>Dr. Shubhangi Vaikole</b>,” Study on Approaches for Geospatial Data Security”, Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1165 - 1169, ISSN: 1309-3452</li> <li>13. <b>Dr. Shubhangi Vaikole</b>, " Parametric Optimization of Manufacturing of Aluminum Die Casting Hot Die Steel Inserts " Journal of Algebraic Statistics, Volume 13, No. 2, 2022, p. 1143 - 1155, ISSN: 1309-3452.</li> </ol>

14. **Dr.S.L.Vaikole** ,Pankaj Mehesre,” Enhancing The Resolution And Perceptual Quality of Images By Super Resolution”, Shodh Sarita, April-June 2020, Volume 7, Issue 26, pg.no.112-117, ISSN: 2348-2397
15. **Dr. S.L.Vaikole**, Vaishali Malpe, , “A Comprehensive Study on Cyberbullying Detection Using Machine Learning Approach”, International Journal of Future Generation Communication and Networking, April 2020, Volume 13, Issue 1, ISSN:2233-7857
16. **Dr. S. L. Vaikole**, B. G. Chhapkhanewala, , “Fabric Fault Detection using Local Derivative Pattern and Gabor Filter Approach”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), January 2018, Volume 7, Issue 4, ISSN: 2278-3075
17. **Dr. S. Vaikole**, S. Mulajkar, A. More, P. Jayaswal, S. Dhas“Stress Detection through Speech analysis using Machine Learning”, International Journal on Creative Research and Thoughts, May 2020, Volume 8, Issue 5, ISSN:2320-28820
18. **Dr.S.L.Vaikole**, Abhiishek Thakur, Prathamesh Ghate, Rutwik Guntoorkar,“Block chain based supply chain system”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, May 2020, Volume 6, Issue 3, ISSN:2456-3307
19. **Dr. Shubhangi Vaikole**, Suvarna Gaikwad, Parth Dode, Shubham Chhipa, , “Smart Bike System”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, May 2020, Volume 6, Issue 3, ISSN:2456-3307
20. **Dr.S.L.Vaikole**,Suyash Gupte,Chhand Patil,Saloni Patil, “Voice Imitator”, International Journal of Scientific Research in Engineering & Management, May 2021, Volume 5, Issue 5, ISSN:2582-3930
21. **Dr.S.L.Vaikole** ,Mahesh Sawant, Keval Senghani, Pragati Singh, “ Speech to Lip Generation”, International Journal of Creative Research Thoughts (IJCRT), May 2021, Volume 9, Issue 5, ISSN: 2320-2882
22. **Dr.S.L.Vaikole**, Pranav Chaudhari, Sakshi Khandhare, mayuri Dahake,”ED-TOOLS( Tool to make education easier)” International Journal of Research and Analytical Reviews, may 2021, Volume 8, Issue 2, eISSN:2348-1269, pISSN:2349-5138
23. **Dr.S.L.Vaikole**,, Sangita Holkar, Dr.S.D.Sawarkar,, Audio and Video Toxic Comments Detection and Classification, International Journal of Engineering Research & Technology (IJERT), December 2020, Volume 9, Issue 12, ISSN:2278-0181
24. **Shubhangi Vaikole**, Sneha Deshmukh, , Dr. Sudhir Sawarkar,”” Automatic Segmentation of Moving Object in video sequences“, International Journal of Engineering Technology, Science and Research, October 2016, Volume 3, Issue 10, ISSN 2394 – 3386
25. **S.L.Vaikole**, Dr.S.D.Sawarkar, ‘Automatic segmentation of moving object in video sequences’, International Journal of Applied Information Systems (IJ AIS)-ISSN 2249-0868) 2016
26. **S.L.Vaikole**, Dr.S.D.Sawarkar, ‘Moving Object Segmentation with Camera in Motion Using GMEC and Change Detection Method’ Journal of Multimedia Processing and Technologies, Volume 6, Number 2, June 2015

	<p><b>27. S.L.Vaikole,Dr.S.D.Sawarkar, 'Object Segmentation with Camera in Motion'International Journal of Innovations and Advancement in Computer Science IJIACS, ISSN 2347 8616 Volume 4, Special Issue September 2015</b></p> <p><b>28. S.L.Vaikole,'Segmentation Using Global Motion Estimation and Compensation',Journal of Computer Engineering (IOSR-JCE)2016</b></p> <p><b>29. S.L.Vaikole,'Automatic Segmentation and Tracking of Moving Objects using Object Tracker',Journal of Computer Engineering (IOSR-JCE)2016</b></p> <p><b>30. S.L.Vaikole,'Moving object Segmentation and Tracking of Moving Objects using Object Tracker',IJETSR,2016</b></p> <p><b>31. S.L.Vaikole,Dr.S.D.Sawarkar,'Automatic Segmentation of Moving Object in video sequences',IJETMAS,2016</b></p> <p><b>32. S.L.Vaikole,'Segmentation of moving object in video using background registration and GMEC',IOSR-JCE,2016</b></p> <p><b>33. S.L.Vaikole'Web Scale Information Extraction from Unstructured and Ungrammatical data sources',IJCEITR,ISSN-2249-7943,Vol 3,Edition Apr 2014.</b></p> <p><b>34. S.L.Vaikole,'Layers crf a model to build more accurate IDS',IJERT,ISSN-2278-0181,Vol 1,Issue 8, Oct 2012.</b></p>
<b>16.</b>	<p><b>List of Papers Published in National and International Conferences</b></p> <ol style="list-style-type: none"> <li>1. S.L.Vaikole, 'An automated physician tool',ICATE,Navi Mumbai,7-8 April 2017.</li> <li>2. S.L.Vaikole, 'Drug repurposing using data mining',ICATE,Navi Mumbai 2017</li> <li>3. S.L.Vaikole,Dr.S.D.Sawarkar, 'Segmentation of moving object with uncovered background, temporary poses and gmob',ELSEVIER,Proceedings of international Conference on communication, Computing and Virtualization (ICCCV) 2016,Volume 79, Pages 299304,journal ISSN :1877-0509,2016</li> <li>4. S.L.Vaikole, 'Automatic Segmentation of Moving Object in Video using GMEC',IEEE Xplorer digital library,SCOPES- 2016,Odisha, 3-5 Oct. 2016</li> <li>5. S.L.Vaikole, 'Automatic Segmentation and Tracking of Moving Objects using Object Tracker',ICIRESM 2016,Delhi,9 oct.2016</li> <li>6. S.L.Vaikole, 'Automatic Segmentation of Moving Object in video Sequences',ICIRESM 2016,Delhi,9 oct.2016</li> <li>7. S.L.Vaikole,Dr.S.D.Sawarkar, 'Segmentation of Moving Object in Video with Camera in Motion',IEEE Xplorer digital library,ICNTE 2015,9-10 Jan. 2015,Page(s):1 5,Print ISBN:978-1-4799-7261-6</li> <li>8. S.L.Vaikole, 'Moving Object Segmentation Using GMEC and Change Detection Method ICDCST 2015,June 8-10,2015,Colombo, Shrilanka</li> <li>9. S.L.Vaikole, 'Object Segmentation with Camera in Motion',ESM-15,20 Sept 2015,New Delhi.</li> <li>10. S.L.Vaikole, 'Methodologies for privacy preserving in data mining',ICETTA-2013,6-7 March 2013,Karjat</li> <li>11. S.L.Vaikole, 'Intrusion detection system in cloud computing environment ICACACT-2012,10-11 Aug 2012,Mumbai</li> <li>12. S.L.Vaikole, 'Learned templates for speech recognition',ICAC-2008,21-22 Feb 2008 ,Chikhali</li> <li>13. S.L.Vaikole, 'Image compression by using kohenon self oranising network',ICAC-2008,21-22 Feb 2008,Chikhali</li> </ol>

	<p>14. S.L.Vaikole, 'Minutia feature extraction from fingerprint images', ICDEF-2008, 11-13 Aug. 2008, Coimbatore</p> <p>15. S.L.Vaikole, 'Moving Object Segmentation in Video', NCATE, Navi Mumbai, 2016</p> <p>16. S.L.Vaikole, 'Moving Object Segmentation Using GMEC', NCATE, Navi Mumbai, 2016</p> <p>17. S.L.Vaikole, 'Currency recognition using mobile application', NCATE, Navi Mumbai, 2016</p> <p>18. S.L.Vaikole, 'Transform based method for classification of various Meningioma subtype images', TACIT-2012, 2<sup>nd</sup> Sept 2012, Nagpur</p> <p>19. S.L.Vaikole, 'Build more accurate IDS using layered architecture and conditional random fields', TACIT-2012, 2<sup>nd</sup> Sept 2012, Nagpur</p> <p>20. S.L.Vaikole, 'Feature Extraction in Fingerprint', NCCCE-2008, Nanded, 8-9 Feb. 2008</p> <p>21. S.L.Vaikole, 'Tomography', NCTIAC-2007, 28-29 Dec 2007, Navi Mumbai</p> <p>22. S.L.Vaikole, 'Voice over-IP Security', NCTIAC-2007, 28-29 Dec 2007, Navi Mumbai</p> <p>23. S.L.Vaikole, 'Use of HMM to solve canonical problems', NCTIAC-2007, 28-29 Dec 2007, Navi Mumbai</p> <p>24. S.L.Vaikole, 'Distributed Continuous Quality Assurance', NCTIAC-2007, 28-29 Dec 2007, Navi Mumbai</p>
17.	<p><b>Books/Reports/General articles etc.</b></p> <ol style="list-style-type: none"> <li>1. Machine Learning- Computer Engineering, Mumbai University, Techno Publication, 2020, ISBN: 978-81-941546-7-8</li> <li>2. Machine Learning-Computer Engineering, Savitribai Phule University, Pune, Techno Publication, 2021, ISBN: 978-93-91472-99-3</li> <li>3. Machine learning- M.SC.IT, IDOL, University of Mumbai, 2021</li> <li>4. Artificial Intelligence and Data Science-Information Technology, Mumbai University, Techno Publication, 2021, ISBN: 978-93-91472-03-0</li> <li>5. Artificial Intelligence and Automation-Mechanical Engineering, Mumbai University, Techno Publication, 2021, ISBN: 978-93-5583-021-0</li> <li>6. Artificial Intelligence and Machine Learning- Mechanical Engineering, Savitribai Phule University, Pune, Techno Publication, 2021, ISBN: 978-93-5583-088-3</li> <li>7. Machine Learning- R19-Computer Engineering, Mumbai University, Techno Publication, 2022, ISBN: 978-93-5583-079-1</li> <li>8. Machine Learning- R19- Electronics Engineering, Mumbai University, Techno Publication (In press)</li> <li>9. Deep Learning- R19-Computer Engineering and Electronics &amp; Computer Science, Mumbai University, Techno Publication (In press)</li> </ol>
18.	<p><b>Invited Lectures in FDP/ STTP:</b></p> <ol style="list-style-type: none"> <li>1. Conducted Session on "Application of AI/ML in Mechanical Engineering" during FDP at DMCE, Airoli</li> <li>2. Conducted Session on "PO7 and its Attainment" in <b>AICTE-ISTE approved FDP</b> at DYPCOE, Akurdi, Pune</li> </ol>
19.	<p><b>International Conference Technical Program Committee Member / Reviewer:</b></p> <ol style="list-style-type: none"> <li>1. Reviewer for Pattern Recognition, Elsevier Journal</li> <li>2. Reviewer for IEEE-ICAST 2022 conference, KJSIEIT, Sion</li> <li>3. Session chair for ICAC3-2021, ICAC3-2019, FRCRCE, Bandra.</li> </ol>

	<ol style="list-style-type: none"> <li>4. Reviewer for CSCITA-2020, SFIT, Borivali</li> <li>5. Session chair and Reviewer for ICATE-2019, ICATE-2018, ICATE-2017, Datta Meghe COE, Airoli</li> <li>6. Session chair and Reviewer for ICETCC-2017, Sarswati COE, Kharghar</li> </ol>
<b>20.</b>	<p><b>Patents:</b></p> <ol style="list-style-type: none"> <li>1. <b>Published patent</b> on “A MEMS based EED device for mental stress detection using Artificial Intelligence” in August 2021. Official Journal of patent office, Issue: 36/2021, 03/09/21, Application no. 202121037968A</li> <li>2. <b>German Patent Granted</b> on “A system for developing a novel 3D printed bionic prosthetic leg”. Application number: 202022103187.8 dated 4<sup>th</sup> June 2022.</li> <li>3. <b>German Patent Filed</b> on “A Novel IoT based cost effective Microprocessor controlled Infant warmer.” Application number: 202022104445.7 dated 3<sup>rd</sup> August 2022.</li> </ol> <p><b>Copyrights:</b></p> <ol style="list-style-type: none"> <li>1. <b>Granted copyright</b> for software module on “Video segmentation with camera in Motion” in December 2021. ROC no. SW-15302/2022</li> <li>2. <b>Granted copyright</b> for software module on “Speech to Lip Movement Generation” in August 2022. ROC no. SW-15772/2022</li> </ol>