


Name of Teaching Staff	Dr. Vinaya Sawant	
Designation	Assistant Professor and Head	
Department	Information Technology	
Date of Joining the Institution	6 <sup>th</sup> August 2003	
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Scopus Link	<a href="https://www.scopus.com/authid/detail.uri?authorId=56763885200">https://www.scopus.com/authid/detail.uri?authorId=56763885200</a>	
Qualifications with Class / Grade	<p><b>PhD (Computer Engineering)</b> NARSEE MONJEE INSTITUTE OF MANAGEMENT STUDIES, Mumbai. JANUARY 2020</p> <p><b>M. Tech (Computer Engineering), CGPA:3.96/4.0</b> NARSEE MONJEE INSTITUTE OF MANAGEMENT STUDIES, Mumbai. JULY 2010</p> <p><b>B. Tech (Information Technology), CGPA: 7.24/10</b> USHA MITTAL'S INSTITUTE OF TECHNOLOGY, S.N.D.T. University, Mumbai. JUNE 2002</p>	
Total Experience in Years	<p><b>20 years</b></p> <p><b>Dwarkadas J. Sanghvi College of Engineering in the Department of Information Technology, Vile Parle (W)— Head of the Department</b> JANUARY 2020 – PRESENT</p> <p><b>Dwarkadas J. Sanghvi College of Engineering in the Department of Information Technology, Vile Parle (W), —Assistant Professor</b> AUGUST 2003 - JANUARY 2020</p>	
Papers Published in Journal:	<ol style="list-style-type: none"> <li>1. A Survey on IQ Test Platform for Visually Impaired, International Journal of Management, Technology and Engineering, Volume XI, Issue II, 2021 <b>[UGC Approved]</b>.</li> <li>2. A Review on Diabetic Retinopathy Detection, International Journal of Management, Technology and Engineering, Volume X, Issue I, 2021 <b>[UGC Approved]</b>.</li> </ol>	

	<ol style="list-style-type: none"> <li>3. A Review on DeepFake Detection, International Journal of Management, Technology and Engineering, Volume X, Issue XII, 2020 2021 <b>[UGC Approved]</b>.</li> <li>4. Abstractive Text Summarization Using Bidirectional LSTM with Attention Mechanism and WORD2VEC", IJRAR - International Journal of Research and Analytical Reviews, 2020 2021 <b>[UGC Approved]</b>.</li> <li>5. A Map Reduce Based Parallel Algorithm, Journal of University of Shanghai for Science and Technology, 2020 2021 <b>[UGC Approved]</b></li> <li>6. Performance evaluation of distributed association rule mining algorithms, Procedia Computer Science, 2016 <b>[Scopus and SCI indexed]</b>.</li> <li>7. Pattern Mining of Road Traffic in Developing Countries using Spatio-Temporal Data, International Journal of Advanced Research in Computer and Communication Engineering, 2016 2021 <b>[UGC Approved]</b>.</li> <li>8. Big Data vs traditional data, International Journal for Research in Applied Science &amp; Engineering Technology (IJRASET), 2015.</li> <li>9. Automated medical palmistry system based on image processing techniques, International Journal of Advanced Research in Computer Science and Software Engineering, 2015.</li> <li>10. A Review on Multi-Agent Data Mining Systems, International Journal of Computer Science and Information Technologies, 2015.</li> <li>11. Automatic Question Generator, The International Journal of Science and Technoledge, 2015.</li> <li>12. Teradata: Future of Databases, The International Journal of Science and Technoledge, 2014.</li> <li>13. A survey of distributed association rule mining algorithms, Journal of Emerging Trends in Computing and Information Sciences, 2014.</li> <li>14. A review of Distributed Data Mining using agents, International Journal of Advanced Technology &amp; Engineering Research (IJATER), 2013.</li> <li>15. Automatic generation of test cases from UML models, Proceedings of International Conference on Technology Systems and Management (ICTSM) published by International Journal of Computer Applications (IJCA), 2011.</li> <li>16. Construction of test cases from UML models, Technology Systems and Management, Springer, Berlin, Heidelberg, 2011 <b>[Scopus and SCI indexed]</b>.</li> </ol>
Papers Presented in Conferences	<ol style="list-style-type: none"> <li>1. Drug Classification using Machine Learning and Interpretability, Smart Technologies, Communication and Robotics (STCR), IEEE Xplore, 2021 <b>[Scopus indexed]</b>.</li> <li>2. Smart Farming, Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications, Springer, Singapore, 2021 <b>[Scopus indexed]</b>.</li> <li>3. Serverless Computing and the Emergence of Function-as-a-Service, International Conference on Recent Trends on Electronics, Information, Communication and Technology, RTEICT, IEEE Xplore, 2021 <b>[Scopus indexed]</b>.</li> <li>4. A Proposed Solution to Build a Breast Cancer Detection Model on Confidential Patient Data using Federated Learning, IEEE Bombay Section Signature Conference (IBSSC), IEEE Xplore, 2021.</li> <li>5. A Parallel Apriori Algorithm and FP- Growth Based on SPARK, International Conference on Automation, Computing and Communication <b>[Open Access]</b>, 2021.</li> <li>6. Financial Investment Recommendation and Decentralized Account Management, 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE Xplore, 2020 <b>[Scopus indexed]</b>.</li> </ol>

	<ol style="list-style-type: none"> <li>7. Implementation of residual network (ResNet) for devanagari handwritten character recognition, Advanced Computing Technologies and Applications, Springer, Singapore, 2020.</li> <li>8. Comparison of traditional machine learning and deep learning approaches for sentiment analysis, Advanced Computing Technologies and Applications, Springer Singapore, 2020.</li> <li>9. Implementation of A Distributed P2P Storage Network, IEEE International Conference for Innovation in Technology (INOCON), IEEE Xplore, 2020 <b>[Scopus indexed]</b>.</li> <li>10. A Proposed Approach for Financial Investment Recommendation and Decentralized Account Management, Advanced Computing Technologies and Applications, Springer, Singapore, 2020.</li> <li>11. A Distributed Peer-To-Peer Storage Network, International Conference on Smart Systems and Inventive Technology (ICSSIT), IEEE Xplore, 2019 <b>[Scopus indexed]</b>.</li> <li>12. Evaluating the Performance of Proposed IODAM Algorithm, International Conference on Nascent Technologies in Engineering (ICNTE), IEEE Xplore, 2019 <b>[Scopus indexed]</b>.</li> <li>13. Automated aspect extraction and aspect-oriented sentiment analysis on hotel review datasets, Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), IEEE Xplore, 2018 <b>[Scopus and SCI indexed]</b>.</li> <li>14. A Machine Learning Approach to Foretell the Probability of a Crop Contracting a Disease, Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), IEEE Xplore, 2018 <b>[Scopus and SCI indexed]</b>.</li> <li>15. A System that Performs Data Distribution and Manages Frequent Itemsets Generation of Incremental Data in a Distributed Environment, International Conference on Advances in Computing and Data Sciences, Springer, Singapore, 2018 <b>[Scopus indexed]</b>.</li> <li>15. Remodeling the Healthcare Industry by employing Blockchain Technology, International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDET, IEEE Xplore, 2018 <b>[Scopus indexed]</b>.</li> <li>16. An incremental mining with ODAM (IODAM), International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), IEEE Xplore, 2017 <b>[Scopus and SCI indexed]</b>.</li> <li>17. A review of various approaches to face hallucination, Procedia Computer Science, 2015 <b>[Scopus and SCI indexed]</b>.</li> </ol>
Area of Specialization	Data Mining, Data Analytics, Distributed Computing, Cloud Computing, Unified Modeling Language (UML)
PhD Guide ? Give field & University	: <b>Field:</b> NIL <b>University:</b>
PhDs / Projects Guided	: <b>PhDs :</b> <b>Projects at Masters level:</b> A Parallel Apriori Algorithm and FP-Growth Based on SPARK (M. Tech)
Books Published / IPRs / Patents	: Books (Editors for conference Proceedings on Springer) Proposal accepted as Editor of the book “ <b>Practical Data Mining Techniques and Applications</b> ” to be published in CRC Press, Taylor & Francis Group, USA

Professional Memberships	:		<ol style="list-style-type: none"> <li>1. Life Member of ISTE</li> <li>2. Member of Computer Society of India</li> <li>3. CPOC, AWS Academy</li> </ol>
Grants fetched	:	Minor Research Grant (University of Mumbai)	NIL
Interaction with Professional Institutions	:	<p><b>Guest Lectures:</b></p> <p><b>Other Achievements and Responsibilities:</b></p>	<ol style="list-style-type: none"> <li>1. SPOC, Smart India Hackathon, 2018-2020. <ul style="list-style-type: none"> <li>• Won Second Prize by team Syncx and cash of Rs. 75000/- in 2018</li> <li>• Won First Prize by team SPYDER and cash of Rs. 75000/- in 2019</li> </ul> </li> <li>2. Reviewer of International Conference on Communication, Information and Computing Technology 2021.</li> <li>3. Reviewer of International Conference on Automation, Computing and Communication 2021.</li> <li>4. Panel member for conducting the Personal Interview process of MCA and MBA, NMIMS university.</li> </ol>
Subjects Taught		<p><b><u>UG Level:</u></b></p> <ol style="list-style-type: none"> <li>1. Distributed Systems</li> <li>2. Image Processing</li> <li>3. Data Mining</li> <li>4. Object Oriented Analysis &amp; Design</li> <li>5. Microprocessor</li> <li>6. Computer Programming (C/C++ and JAVA)</li> <li>7. Advanced Database Management System</li> <li>8. GUI &amp; Database System</li> <li>9. Computer Organization &amp; Architecture</li> <li>10. Middleware &amp; Enterprise Integration Technologies</li> </ol> <p><b><u>PG Level:</u></b></p> <ol style="list-style-type: none"> <li>1. Advanced Data Management Systems</li> <li>2. Advanced Data Structures</li> <li>3. High Performance Computing</li> </ol>	

<p>Projects Guided (50 +)</p>	<p>:</p> <p><b>PG Level:</b></p> <ol style="list-style-type: none"> <li>1. A Parallel Apriori Algorithm and FP-Growth Based on SPARK</li> </ol> <p><b>UG Level:</b></p> <ol style="list-style-type: none"> <li>1. Intelligent Form Reader</li> <li>2. A Voice Operated System: An Online IQ Test Platform for Visually Impaired</li> <li>3. A Distributed P2P Storage Network</li> <li>4. Smart Farming</li> <li>5. Financial Investment Recommendation and Decentralized Account Management</li> <li>6. Smart Cradle</li> <li>7. Crop Disease Prediction</li> <li>8. MediTrack: Employing Blockchain Technology in the Healthcare Industry</li> <li>9. Automated Database and Api Management</li> <li>10. Intelligent Devanagari Text Recognizer</li> </ol>																																
<p>Recommended Students for Higher Education</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Name of the Student</u></th> <th style="text-align: left;"><u>University/Industry</u></th> </tr> </thead> <tbody> <tr><td>1. Zaid Merchant</td><td>- Indian Institute of Management, Kozhikode</td></tr> <tr><td>2. Shreeya Agrawal</td><td>- Indian Institute of Management, Indore</td></tr> <tr><td>3. Chinmay Thakar</td><td>- The University of Texas at Dallas</td></tr> <tr><td>4. Dhvani Kansara</td><td>- University of Southern California</td></tr> <tr><td>5. Harsh Doshi</td><td>- Syracuse University</td></tr> <tr><td>6. Pratik Doshi</td><td>- University of North Carolina at Charlotte</td></tr> <tr><td>7. Riken Gala</td><td>- Stony Brook University</td></tr> <tr><td>8. Viraj Mehta</td><td>- University of Southern California</td></tr> <tr><td>9. Pushkar Bhuse</td><td>- UC San Diego</td></tr> <tr><td>10. Parth Meswani</td><td>- University of Illinois Urbana-Champaign</td></tr> <tr><td>11. Bhavya Shah</td><td>- University at Buffalo School of Management</td></tr> <tr><td>12. Arjav Mehta</td><td>- North Carolina State University</td></tr> <tr><td>13. Aditya Shinde</td><td>- University of Southern California</td></tr> <tr><td>14. Sneha Gajiwala</td><td>- University of Illinois Urbana-Champaign</td></tr> <tr><td>15. Monil Diwan</td><td>- Northeastern University</td></tr> </tbody> </table>	<u>Name of the Student</u>	<u>University/Industry</u>	1. Zaid Merchant	- Indian Institute of Management, Kozhikode	2. Shreeya Agrawal	- Indian Institute of Management, Indore	3. Chinmay Thakar	- The University of Texas at Dallas	4. Dhvani Kansara	- University of Southern California	5. Harsh Doshi	- Syracuse University	6. Pratik Doshi	- University of North Carolina at Charlotte	7. Riken Gala	- Stony Brook University	8. Viraj Mehta	- University of Southern California	9. Pushkar Bhuse	- UC San Diego	10. Parth Meswani	- University of Illinois Urbana-Champaign	11. Bhavya Shah	- University at Buffalo School of Management	12. Arjav Mehta	- North Carolina State University	13. Aditya Shinde	- University of Southern California	14. Sneha Gajiwala	- University of Illinois Urbana-Champaign	15. Monil Diwan	- Northeastern University
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<p>Institute/Department Responsibility handled:</p>	<ol style="list-style-type: none"> <li>1. <b>Associate Head</b> of IT Department, 2018-2020.</li> <li>2. <b>Chairperson, Board of Studies</b> of Information Technology Department, 2020 onwards.</li> <li>3. <b>Member, Board of Studies</b> of Information Technology Department, 2019-20.</li> <li>4. <b>Vice Chairperson of Admission Committee</b>, DJSCE, 2020 and 2021.</li> <li>5. <b>Member, Software Team of Admission Committee</b>, DJSCE, 2010 - 2019.</li> <li>6. <b>Department Program Coordinator</b>, NBA Accreditation Committee, 2020, DJSCE</li> <li>7. <b>Department Coordinator, Autonomy Committee</b>, DJSCE.</li> <li>8. <b>Organizing Chair</b> of 2nd International Conference on Advanced Computing Technologies and Applications organized by SVKMs Dwarkadas J. Sanghvi College of Engineering, 2020.</li> <li>9. <b>Treasurer</b> of 1st International Conference on Advanced Computing Technologies and Applications organized by SVKMs Dwarkadas J. Sanghvi College of Engineering, 2015.</li> <li>10. <b>Co-Convenor of DJASCII</b>- A State Level Project Competition, organized by SVKMs Dwarkadas J Sanghvi College of Engineering, 2020 and 2021.</li> <li>11. <b>Treasurer</b> of DJASCII- A State Level Project Competition from 2015 to 2019, organized by SVKMs Dwarkadas J Sanghvi College of Engineering</li> <li>12. <b>Student Branch Counselor</b> of Student Chapter of Computer Society of India, 2017 onwards.</li> <li>13. <b>Faculty Mentor</b> of Programmers Club (DJCODESTARS), 2015 onwards.</li> <li>14. <b>Paper Setter</b> in various subjects in the Branch of Computer Engineering and Information Technology for University of Mumbai and NMIMS University.</li> </ol>