

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

International Journal - SCI / SCOPUS Indexed

Academic Year-2024-25	
1	Dahiwal, P., & Kulkarni, A., "Cloud-Based Cognitive Image Authentication Using Deep Learning Techniques for Secure Access", Computer Fraud and Security, Vol. 2024, Issue 8, 2025.
2	Dahiwal, P. and Kulkarni, A., "Improving Facial Expression Recognition with Deep Learning for Faces of Different Ages", Journal of Information Systems Engineering and Management, Vol. 10, No.1, (2025)
3	R. Bhagwat and Y. Dandawate, "Towards robust crop disease detection for complex real field background images", Vietnam J. Sci. Technol., vol. 62, no. 5, pp. 990–1004, Oct. 2024.
4	Shekapure, S. and Patil, D.D. (2025) 'Case-based reasoning methodology for eLearning recommendation system', Int. J. Advanced Intelligence Paradigms, Vol. 30, No. 1, pp.22–35
Academic Year-2023-24	
1	Anita Vikram Shinde, Dipti Durgesh Patil, "A Multi-Classifer-Based Recommender System for Early Autism Spectrum Disorder Detection using Machine Learning", Healthcare Analytics, Volume 4, 2023,100211, ISSN 2772-4425, https://doi.org/10.1016/j.health.2023.100211
2	Patil, D. D., & Meshram, D. A. (2023). Machine Intelligence Based Assessment of Nutritional Olfactory Features for Controlling Health Hazards Using Electronic Nose. Revista De Gestão Social E Ambiental, 17(8), e03499. https://doi.org/10.24857/rgsa.v17n8-013
3	Dipti D. Patil, Meghana P. Lokhande, Nilakshi Maruti Mule, An intelligent system with fuzzy-based inference engine for secured tele-robotic surgery, Healthcare Analytics, Volume 4, 2023, 100264, ISSN 2772-4425, https://doi.org/10.1016/j.health.2023.100264
4	Meshram, D. A. ., & Patil, D. D. . (2023). Predicting Sour or Sweet: Exploring Advance DL Methods for Odor Perception Based on Molecular Properties. International Journal of Intelligent Systems and Applications in Engineering, 11(11s), 40–50
5	Kulkarni, A., Deshpande, P., & Tokekar, M. (2024). Game-based Teaching Methodology for Active and Informal Learning. <i>Journal of Engineering Education Transformations</i> , 37(3).
6	Borse, J. H. ., Patil, D. D. ., & Kumar, V. . (2023). Real-Time Hazard-Free Planetary Landing using Deep Recurrent Neural Network. International Journal of Intelligent Systems and Applications in Engineering, 11(4), 502–510. Retrieved from https://ijisae.org/index.php/IJISAE/article/view/3585
7	Shinde, A. V., Patil, D. D., & Tripathi, K. K. (2024). A Comprehensive Survey on Recommender Systems Techniques and Challenges in Big Data Analytics with IOT Applications. Revista De Gestão Social E Ambiental, 18(2), e05195. https://doi.org/10.24857/rgsa.v18n2-097
8	N Shekapure, Dipti Patil & Swati Shekapure (2024), "Data analytics for finding emerging entrepreneur's success factors", in Journal of Autonomous Intelligence, pp-1-10, vol 7, Issue-2
9	Dahiwal, Pranali, and Anagha Kulkarni. "Facial Image Encryption & Compression for Secure Image Transmission on Cloud Storage." International Journal of Intelligent Systems and Applications in Engineering 12.6s (2024): 615-621.
10	Velankar, M., & Kulkarni, P. (2024). Employing cumulative rewards based reinforcement machine learning for personalized music recommendation. Multimedia Tools and Applications, 83(16), 48007-48020.
11	Kamlakar, M. ., Patil, D. ., & Patil, L. . (2023). Smart Stress Related Risk Assessment of Pregnant

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

	Woman Using Internet of Medical Things. International Journal of Intelligent Systems and Applications in Engineering, 12(9s), 166–181
12	Madhura R. Shankarpure and Dipti D. Patil, “Smart Fruit Identification and Counting using Machine Vision Approach” International Journal of Advanced Computer Science and Applications(IJACSA), 14(12), 2023. http://dx.doi.org/10.14569/IJACSA.2023.0141229
13	Moholkar, U. R. ., & Patil, D. D. . (2024). Comprehensive Survey on Agent Based Deep Learning Techniques for Space Landing Missions. International Journal of Intelligent Systems and Applications in Engineering, 12(16s), 188–200. Retrieved from
14	Kulkarni, A., Deshpande, P., & Tokekar, M. (2024). Game-based Teaching Methodology for Active and Informal Learning. <i>Journal of Engineering Education Transformations</i> , 37(3).
15	Dharmale, G., Patil, D. D., Ganguly, T., & Shekapure, N. (2024). Original Research Article Effective speech recognition for healthcare industry using phonetic system. <i>Journal of Autonomous Intelligence</i> , 7(5).
16	Shreya. Regundwar. Radhika. Bhagwat. . Sakshi Bhosale, Rajlaxmi Chougale, Sakshi Abbu, “Sequence-to-Sequence Abstractive Text Summarization Model for Headline Generation with Attention”, <i>Int J Intell Syst Appl Eng</i> , vol. 12, no. 3, pp. 842–851, Mar. 2024
Academic Year-2022-23	
1	Janhavi H. Borse, Dipti D. Patil, Vinod Kumar, Sudhir Kumar, "Soft Landing Parameter Measurements for Candidate Navigation Trajectories Using Deep Learning and AI-Enabled Planetary Descent", <i>Mathematical Problems in Engineering</i> , vol. 2022, Article ID 2886312, 14 pages, 2022. https://doi.org/10.1155/2022/2886312
2	M. R. . Shankarpure and D. D. . Patil, “A Comprehensive Survey on Methods and Techniques for Automated Fruit Plucking”, <i>Int J Intell Syst Appl Eng</i> , vol. 11, no. 1, pp. 156–168, Jan. 2023.
3	Lokhande, M., Patil, D.D., Kothari, S., Pawar, S., Koparde, S. (2023). Trust management system in Internet of Things: A survey. <i>International Journal of Safety and Security Engineering</i> , Vol. 13, No. 2, pp. 341-347. https://doi.org/10.18280/ijssse.130216
Academic Year-2021 - 2022	
1	M. P. Lokhande, D. D. Patil, L. V. Patil, and M. Shabaz, “Machine-to-Machine Communication for Device Identification and Classification in Secure Tele robotics Surgery,” <i>Secure. Communication. Networks</i> , vol. 2021 , 2021 , doi: 10.1155/2021/5287514.
2	M. P. Lokhande and D. D. Patil, “Secured energy efficient machine -to-machine communication for tele-robotic system,” <i>Informatics Med. Unlocked</i> , vol. 26, 2021, doi: 10.1016/j.imu.2021.100731.
3	N. M. Mule, D. D. Patil, and M. Kaur, “A comprehensive survey on investigation techniques of exhaled breath (EB) for diagnosis of diseases in human body,” <i>Informatics Med. Unlocked</i> , vol. 26, 2021, doi: 10.1016/j.imu.2021.100715.
4	J. H. Borse and D. D. Patil, “Empirical Analysis of Feature Points Extraction Techniques for Space Applications,” <i>Int. J. Adv. Computer. Sci. Appl.</i> , vol. 12, no. 9, pp. 81–87, 2021, doi: 10.14569/IJACSA.2021.0120910.
5	R. Bhagwat and Y. Dandawate, “Indian plant species identification under varying illumination and viewpoint conditions,” in <i>2016 Conference on Advances in Signal Processing (CASP)</i> , 2016, pp. 469–473.
6	Dipti. D. Patil, Meghana P. Lokhande, “Enhancing the energy efficiency by LEACH protocol in the internet of things,” <i>Int. J. Comput. Sci. Eng.</i> , vol. 25, no. 1, pp. 1–10, 2022.
Academic Year-2020 - 2021	

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

1	H. Wadkar and A. Mishra, "Hardening web browser security configuration using machine learning technique," <i>Int. J. Electron. Bus.</i> , vol. 15, no. 3, pp. 275–295, 2020, doi: 10.1504/IJEB.2020.109067.
2	R. Bhagwat and Y. Dandawate, "Comprehensive Multilayer Convolutional Neural Network for Plant Disease Detection," <i>Int. J. Adv. Comput. Sci. Appl.</i> , vol. 12, no. 1, pp. 204–211, 2021, doi: 10.14569/IJACSA.2021.0120125.
3	D. D. Patil, Dewanand A. Meshram, "Digital Representation Techniques For Olfactory Features," <i>IT Ind.</i> , vol. 9, no. 1, pp. 17–24, 2021, doi: 10.4324/9780240814681-7.
4	J. H. Borse, D. D. Patil, and V. Kumar, "Tracking Keypoints from Consecutive Video Frames Using CNN Features for Space Applications," <i>Teh. Glas.</i> , vol. 15, no. 1, pp. 11–17, 2021, doi: 10.31803/tg-20210204161210.
5	P. B. Et al., "Iot Based System for Detection of Sewage Blockages," <i>Inf. Technol. Ind.</i> , vol. 9, no. 1, pp. 961–970, 2021, doi: 10.17762/itii.v9i1.224.
6	N. Mule, D. D. Patil, and Y. D. Chavhan, "In - house Object Detection System for Visually Impaired Government College Of Engineering Karad , India," vol. 13, no. 4, pp. 4919–4926, 2020.
7	R. Kolhe, A. Joshi, P. Mate, D. Gupta, and D. Patil, "Emergence and Convergence of AI , Blockchain and IoT," vol. 13, no. 4, pp. 4700–4714, 2020.
8	M. P. Lokhande and D. D. Patil, "Network Performance Measurement through Machine to Machine Communication in TeleRobotics System," <i>Teh. Glas.</i> , vol. 15, no. 1, pp. 98–104, 2021, doi: 10.31803/tg-20210205092413.
9	M. Velankar, A. Deshpande, and P. Kulkarni, "Melodic pattern recognition in Indian classical music for raga identification," <i>Int. J. Inf. Technol.</i> , vol. 13, no. 1, pp. 251–258, 2021, doi: 10.1007/s41870-018-0245-6.
10	M. Velankar, V. K. Khatavkar, and D. P. Kulkarni, "Multimodal Sentiment Analysis of Nursery Rhymes for Behavior Improvement of Children," 2020.
11	G. J. Dharmale and D. D. Patil, "Performance Evaluation of Different ASR Classifiers on Mobile Device," <i>Int. J. Next-Generation Comput.</i> , vol. 12, no. 2, SI, pp. 124–133, 2021.
12	S. More and D. Patil, "Smart Cervix Monitoring of Pregnant Women," <i>Int. J. Next- Generation Comput.</i> , vol. 12, no. 2, SI, pp. 103–114, 2021.
13	M. P. Lokhande and D. D. Patil, "Device classification for machine to machine communication in internet of things for tele-robotic surgery: A review," <i>Indian J. Comput. Sci. Eng.</i> , vol. 12, no. 3, pp. 618–628, 2021, doi: 10.21817/indjcse/2021/ v12i3/211203102.
Academic Year-2019 - 2020	
1.	S. T. Mantri, D. D. Patil, P. Agrawal, and V. M. Wadhai, "Real Time Multimodal Depression Analysis," <i>Int. J. Innov. Technol. Explor. Eng.</i> , vol. 8, no. 9, pp. 2298– 2304, 2019, doi: 10.35940/ijitee.i8452.078919.
2	S. Shekapure and D. D. Patil, "Performance based adaptive personalized elearning system," <i>Int. J. Recent Technol. Eng.</i> , 2019, doi: 10.35940/ijrte.B3696.078219.
3	G. J. Dharmale and D. D. Patil, "Evaluation of phonetic system for speech recognition on smartphone," <i>Int. J. Innov. Technol. Explor. Eng.</i> , 2019, doi: 10.35940/ ijitee.J1215.0881019.
4	J. H. Borse and D. D. Patil, "A new optimized recurrent feedback deep convolutional neural net for image super resolution," <i>Int. J. Recent Technol. Eng.</i> , 2019, doi: 10.35940/ijrte.C6255.098319.

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

5	M. P. Lokhande and D. D. Patil, "Security Threats In M2M Framework Of Iot," Int. J. Adv. Sci. Technol., vol. 29, no. 8, pp. 1809–1823, 2020.
6	V. Khatavkar, M. Velankar, and P. Kulkarni, "Thematic Context Derivator Algorithm for Enhanced Context Vector Machine: eCVM," Int. J. Eng. Adv. Technol., vol. 9, no. 2, pp. 4872–4877, 2019, doi: 10.35940/ijeat.b4564.129219.
7	S. Thombre, L. Patnaik, and A. Tavildar, "Delay and jitter sensitivity analysis with varying TCP fraction for multiplexed internet communications," Int. J. Internet Protoc. Technol., vol. 13, no. 2, pp. 61–77, 2020, doi: 10.1504/IJPT.2020.106297.
8	S. Thombre, L. M. Patnaik, and A. S. Tavildar, "Design and performance analysis of link-by-link congestion avoidance algorithm," Int. J. Commun. Networks Distrib. Syst., vol. 24, no. 4, pp. 381–408, 2020, doi: 10.1504/IJCND.2020.107468.
Academic Year-2018 - 2019	
1	S. Shekapure and D. D. Patil, "Enhanced e-Learning experience using case based reasoning methodology," Int. J. Adv. Comput. Sci. Appl, vol. 10, pp. 236–241, 2019.
2	G. Dharmale, V. M. Thakare, and D. D. Patil, "Implementation of efficient speech recognition system on mobile device for Hindi and English Language," Int. J. Adv. Comput. Sci. Appl., vol. 10, no. 2, 2019.
3	S. K. Thombre, L. M. Patnaik, and A. S. Tavildar, "Effect of multiplexing TCP flows on delay sensitivity in the internet communications," CCF Trans. Netw., vol. 1, no. 1–4, pp. 37–51, 2019, doi: 10.1007/s42045-019-00015-9.
Academic Year-2016 - 2017	
1	A. R. Kulkarni, V. Tokekar, and P. Kulkarni, "Characterizing evolving behavior of context vectors for context based clustering," Evol. Syst., vol. 8, no. 4, pp. 261–269, 2017.
2	H. S. Wadkar, A. Mishra, and A. M. Dixit, "Framework to secure browser using configuration analysis," Int. J. Inf. Secur. Priv., vol. 11, no. 2, pp. 49–63, 2017, doi: 10.4018/IJISP.2017040105.

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

Other National / International Journal

Academic Year-2022-23	
1	Kulkarni, A., Robert, Y., Nigudkar, Y., Barve, P., & Mutha, N. (2023). Intelligent gesture recognition system for translating indian sign language to english. <i>Journal of University of Shanghai for Science and Technology</i> , 157-173.
2	Utkarsh R. Moholkar, Dipti D. Patil, Vinod Kumar, Archana Patil, “Deep Learning Approach for Unmanned Aerial Vehicle Landing”, in <i>International Journal of Innovative Technology and Exploring Engineering (IJITEE)</i> ISSN: 2278-3075 (Online), Volume-11 Issue-10, September 2022 Doi: 10.35940/ijitee.J9263.09111022
3	Meenal Kamlakar, Dipti Patil, Lalit Patil. (2022). Survey On Different Methods Used to Track Maternal and Fetal Health During Pregnancy. <i>Journal of Pharmaceutical Negative Results</i> , 13(4), 1539–1546. https://doi.org/10.47750/pnr.2022.13.04.216 (Original work published December 19, 2022)
4	Velankar, M., Khatavkar, V., Jagtap, V., & Kulkarni, P. (2022). Knowledge discovery in time series data with contextual event identification. <i>International Journal of Knowledge Engineering and Data Mining</i> , 7(3-4), 252-270.
5	Velankar, M., Thombre, S., & Wadkar, H. (2022). Evaluating deep learning models for music emotion recognition. <i>International Journal of Engineering Applied Sciences and Technology</i> , 7(6), 252-259.
6	Velankar, M., Thombre, S., & Wadkar, H. (2022). A Systematic Problem Validation Framework for Startups and Entrepreneurs. <i>AMC Indian Journal of Entrepreneurship</i> , 5(4), 8-18.
7	Tejal Bhagwatikar, Prajakta Deshpande. An Augmented Reality Application to Enhance Visitor Experience. <i>GRENZE International Journal of Engineering and Technology</i> . Volume 9 Issue 2, 2256-2261
Academic Year-2020 - 2021	
1	Harsha Sonune et. al., “IRJET- Fake News Detection System,” <i>Irjet</i> , vol. 8, no. 5, pp. 5–8, 2021.
2	D. Salunke, M. Vishwase, P. Palve, R. Pawar, and M. Kolambe, “Leaf Disease Detection System Using Deep Learning: a Review,” vol. 5, no. 12, pp. 267–269, 2021.
3	M. Badjate, S. Ponkshe, S. Rohida, T. Patel, and P. Deshpande, “Family of Friends—A Hostel Utility System,” <i>Lect. Notes Networks Syst.</i> , vol. 321, pp. 95–102, 2022, doi: 10.1007/978-981-16-5987-4_10.
Academic Year-2019 - 2020	
1	M. Velankar, A. Deshpande, and D. P. Kulkarni, “Melodic Pattern Recognition of songs based on Raga Music for Content-based Music Retrieval,” <i>ITEE Journal</i> , vol. 8, no. 6, pp. 14–20, 2019
Academic Year-2018 - 2019	
1	Khatavkar, V., Velankar, M. and Kulkarni, P., "Multi-perspective analysis of news articles using machine learning algorithms", <i>International Journal of Computer Applications</i> , 975, p.88-87, 2019.

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

Academic Year-2017 - 2018	
1.	S. A. Tiwaskar, Dipti Patil, "Development of Framework for Moving Object Detection and Tracking in Video Sequences," vol. VI, no. Vii, pp. 70–75, 2017.
2.	M. Velankar and P. Kulkarni, "Feature Engineering and Generation for Music Audio Data," IJETT, vol. 5, no. 1, pp. 10012–10018, 2018.
3.	P.D. Meshram, Suhas Gajre, "Mapping Risk of Applications for Security to Android Devices", in Journal of Advanced Research in Dynamical and Control Systems, ISSN: 1943-023X, vol 10, Issue 7, pp-241-248,2017
4	P. Meshram, "Android Forensics and It " s Existing Vulnerabilities Penetration Testing Framework," no. March, 2017.
Academic Year-2016 - 2017	
1	S. Mantri, P. Agrawal, D. Patil, V. Wadhai, and S. Bobde, "An Advanced Design for Depression Analysis through EEG Signal," Int. J. Adv. Electron. Comput. Sci. ISSN 2393-2835, vol. 5, no. 1, pp. 2015–2018, 2017.
2.	M. Kolambe, "Survey paper on stock market prediction," Int. J. Innov. Res. Comput. Commun. Eng., vol. 4, no. 10, 2016.
3.	M. Kolambe and P. A. Junnarkar, "Nifty Prediction using SVM," no. 2004, pp. 10020– 10026, 2017, doi: 10.15680/IJIRSET.2017.0605349.
Academic Year-2015 - 2016	
1	D. Prajakta, "Incident Management Using Lightning Connect To," Int. J. Curr. Eng. Sci. Res., vol. 3, no. 3, pp. 50–53, 2016.
2	Anagha Kulkarni, "Implementation of Online Placement System", in International Journal of Emerging Research in Management and Technology, Volume 5, Issue 1, Jan 2016
3.	G. Dharmale, D. D. Patil, and V. Thakare, "Speech Recognition Techniques On Mobile Devices : -," In International Journal of Advances in Electronics and Computer Sci- ence, ISSN: 2393-2835, no. 1, pp. 28–36, 2016.
4.	A. A. Sawant, Suchitra Pakale and B. D. Pagare, "To Develop An Application To Fa- cilitate Registration And Notification For Organ," No. 4, Pp. 47–50, 2016
Academic Year-2013 - 2014	
1	V. Panchwadkar, S. Pande, and M. Velankar, "Survey paper on Music beat tracking," Ijrcet, vol. 2, no. 10, pp. 953–958, 2013, doi: 10.13140/2.1.1353.7927.
2.	P. Goswami and M. R. Velankar "Study paper for Timbre identification in Sound," Int. J. Eng. Res. Technol., vol. 2, no. 10, pp. 3022–3027, 2013, doi: 10.13140/2.1.4565.0566.
3.	V. Makarand, H. V Sahasrabuddhe, and T. Madhura, "Perception based framework for Similar Music Retrieval & Recommendation," in IJCLNLP, July, 2014, doi: 10.13140/2.1.4302.9126.

MKSSS'S Cummins College of Engineering for Women, Pune

Department of Information Technology

International Conference - Scopus Indexed

Academic Year -2024-25	
1	Moholkar, U.R., Patil, D.D., Borse, J., Kumar, V. (2024). Deep Learning Approach for Autonomous Spacecraft Landing. In: Abraham, A., Bajaj, A., Hanne, T., Hong, TP. (eds) Intelligent Systems Design and Applications. ISDA 2023. Lecture Notes in Networks and Systems, vol 1047. Springer, Cham. https://doi.org/10.1007/978-3-031-64836-6_1
2	Tiwari, Rishita, Sneha Thombre, Deepali Patel, Khushi Tilokani, and Shreya Amritkar. "Evaluating Code Sustainability: A Comprehensive Study of Metrics and Tools." 2023 IEEE Engineering Informatics (2023): 1-7.
3	H. Sonune and N. Kulkarni, "Leveraging AI for Enhanced Botnet Detection - A Review of Machine Learning Approach for Cybersecurity," 2024 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS), Pune, India, 2024, pp. 1-8, doi: 10.1109/ICBDS61829.2024.10837337.
4	https://doi.org/10.1109/I-SMAC61858.2024.10714625 A. V. Shinde and D. D. Patil, "From Social Signals to Recommendations: Enhancing Customer Experience and Business Insights using Machine Learning," 2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2024, pp. 849-852, doi: 10.1109/I-SMAC61858.2024.10714625
5	V. Saraf and D. D. Patil, "Advancing Smart Autonomous Systems: Simulation and Testing Platforms," 2024 International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS), Bengaluru, India, 2024, pp. 642-649, doi: 10.1109/ICICNIS64247.2024.10823208.
6	L. Biradar and D. D. Patil, "A Comprehensive Review on Acreage Estimation of Rabi Pulses and Kharif Onions Using OPTISAR , Hierarchical Decision Rules and Random Forest," 2024 IEEE 4th International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India, 2024, pp. 1-8, doi: 10.1109/ICTBIG64922.2024.10911767
7	M. Kamlakar, L. Patil and D. Patil, "Non Invasive Stress Detection in Pregnant Women: A Smart IOT based System," 2024 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS), Pune, India, 2024, pp. 1-6, doi: 10.1109/ICBDS61829.2024.10837466.
8	S. Kulkarni and A. Kulkarni, "Review on use of Immersive Technologies in Tourism," 2024 International Conference on Intelligent Computing and Emerging Communication Technologies (ICEC), Guntur, India, 2024, pp. 1-7, doi: 10.1109/ICEC59683.2024.10837334.
9	M. R. Shankarpure and D. D. Patil, "Precision Fruit Harvesting: Stem Detection and Cutting Techniques using Image Processing for Robotic Systems," 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), Goathgaun, Nepal, 2025, pp. 1091-1096, doi: 10.1109/ICMCSI64620.2025.10883503.
10	M. Kamlakar, L. Patil and D. D. Patil, "Early Identification of Nutritional Gaps in Pregnant Women Using Nail Images for Healthcare Analysis," 2024 IEEE Pune Section International Conference (PuneCon), Pune, India, 2024, pp. 1-4, doi: 10.1109/PuneCon63413.2024.10894764.
Academic Year -2023-24	
1	S. B. Tambe, S. S. Gajre and D. D. Patil, "Real-Time Clustering and Classification of Physiological Big Data for Healthcare Monitoring," IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society, Singapore, Singapore, 2023, pp. 1-6, doi: 10.1109/IECON51785.2023.10312472.
2	Shetye, I., Morwadkar, S., Chavan, B., Rajole, S., & Kulkarni, S. (2024, January). Literature Survey: Complaint Management System Using Blockchain Technology. In the International

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

	Conference on Smart Computing and Communication (pp. 339-350). Singapore: Springer Nature Singapore.
3	D. Meshram and D. D. Patil, "Integrating Olfaction Technology and AI in Understanding Olfactory Dysfunction in Neurodegenerative Neuropsychiatric Disorders," 2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI), Raipur, India, 2023, pp. 1-7, doi: 10.1109/ICAIIHI57871.2023.10489788
4	Chandra, P., Joshi, G., & Bhagwat, R. (2023, November). ChatGPT's Evolution in Reshaping Cognitive Behavioral Therapy. In 2023 IEEE Engineering Informatics (pp. 1-9). IEEE.
5	Ausekar, A., & Bhagwat, R. (2023, November). Banking on AI: Exploring the Transformative Role of ChatGPT in Financial Services. In 2023 IEEE Engineering Informatics (pp. 01-06). IEEE.
6	S. B. Bankar, S. Mathur, N. K. Pathak, A. G. Gawas and D. D. Patil, "Depth Analysis for Unmanned Aerial Vehicle using Incremental Deep Learning Approach and Publisher-Subscriber Model," 2024 2nd International Conference on Advancement in Computation & Computer Technologies (InCACCT), Gharuan, India, 2024, pp. 348-352, doi: 10.1109/InCACCT61598.2024.10551241.
7	Sonawane, Neel, Anagha Kulkarni, and Pratiksha Deshmukh. "Indian sign language recognition using key point extractor and LSTM." AIP Conference Proceedings. Vol. 2942. No. 1. AIP Publishing, 2024.
Academic Year -2022-23	
1	Shinde, A.V., Patil, D.D. (2023). Content-Centric Prediction Model for Early Autism Spectrum Disorder (ASD) Screening in Children. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Infrastructure and Computing. Lecture Notes in Networks and Systems, vol 520. Springer, Singapore. https://doi.org/10.1007/978-981-19-5331-6_38
2	Chourasiya, S., Panchal, L., Dangra, M., Bhandari, M., Charkha, V., Dhale, I. (2023). Environment-Based Asthma Trigger Detection (ATD). In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Systems and Sustainability. Lecture Notes in Networks and Systems, vol 516. Springer, Singapore. https://doi.org/10.1007/978-981-19-5221-0_51
3	Bajaj, S., Panchal, L., Patil, S., Sanas, K., Bhatt, H., Dhakane, S. (2023). A Real-Time Driver Drowsiness Detection Using OpenCV, DLib. In: Fong, S., Dey, N., Joshi, A. (eds) ICT Analysis and Applications. Lecture Notes in Networks and Systems, vol 517. Springer, Singapore. https://doi.org/10.1007/978-981-19-5224-1_64
4	Patil, K., Sonune, H., Devikar, S., Chaudhari, V., & Ayachit, I. (2022). A comparative analysis of various techniques of data leakage detection in different domains. In <i>ICT Analysis and Applications: Proceedings of ICT4SD 2022</i> (pp. 735-742). Singapore: Springer Nature Singapore.
5	Chindhe, B., Ramalingam, A., Chavan, S., Hardas, S., Patil, D. (2023). Advances in Vision-Based UAV Manoeuvring Techniques. In: Thampi, S.M., Mukhopadhyay, J., Paprzycki, M., Li, K.C. (eds) International Symposium on Intelligent Informatics. ISI 2022. Smart Innovation, Systems and Technologies, vol 333. Springer, Singapore. https://doi.org/10.1007/978-981-19-8094-7_35
6	Deshpande, I., Sangitrao, R., Panchal, L. (2023). Study of NFT Marketplace in the Metaverse. In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and Systems, vol 662. Springer, Singapore. https://doi.org/10.1007/978-981-99-1414-2_59
7	P. Jadhav, M. Sawal, A. Zagade, P. Kamble and P. Deshpande, "Pix2Pix Generative Adversarial Network with ResNet for Document Image Denoising," 2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2022, pp. 1489-1494, doi: 10.1109/ICIRCA54612.2022.9985695.

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

8	Mayuree, S., Anushka, Z., Pranjal, J., Prerna, K., Prajakta, D. (2023). Patch-Based Autoencoder for Document Image Denoising with Smoothing. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Infrastructure and Computing. Lecture Notes in Networks and Systems, vol 520. Springer, Singapore. https://doi.org/10.1007/978-981-19-5331-6_62
9	Bornare, A., Dubey, A., Dherange, R., Chiddarwar, S., Deshpande, P. (2023). Troomate—Finding a Perfect Roommate a Literature Survey. In: Sharma, N., Goje, A., Chakrabarti, A., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. ICDMAI 2023. Lecture Notes in Networks and Systems, vol 662. Springer, Singapore. https://doi.org/10.1007/978-981-99-1414-2_1
10	Deshmukh, I., Agrawal, P., Khursale, A., Lahane, N., & Sonune, H. (2023, January). Graphology-Based Behavior Prediction: Case Study Analysis. In International Conference on Data Management, Analytics & Innovation (pp. 129-141). Singapore: Springer Nature Singapore.
Academic Year -2021 - 2022	
1	Vasundhara Chavan, Shivani Kamtankar, Shivani Kamtankar, Aishwarya Jagtap, Suchitra Pakale,"An Augmented Reality Application to Enhance the Shopping Experience of Electronic Appliances", in IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON), 2021, DOI: 10.1109/GUCON50781.2021.9573688
2	Badjate, M., Ponkshe, S., Rohida, S., Patel, T., Deshpande, P. (2022). Family of Friends—A Hostel Utility System. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Systems and Sustainability. Lecture Notes in Networks and Systems, vol 321. Springer, Singapore. https://doi.org/10.1007/978-981-16-5987-4_10
Academic Year -2020 - 2021	
1	S. Thombre, “Freeware Solution for Preventing Data Leakage by Insider for Windows Framework,” 2020 Int. Conf. Comput. Perform. Eval. ComPE 2020, pp. 44–47, 2020, doi: 10.1109/ComPE49325.2020.9200160.
2	Chafe, S.S., Bangad, D.A., Sonune, H. (2021). Blockchain-Based E-Voting Protocol. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Systems and Sustainability. Advances in Intelligent Systems and Computing, vol 1270. Springer, Singapore. https://doi.org/10.1007/978-981-15-8289-9_23
3	P. Jadhav, P. Jadhav, S. Thombre, K. Papat, and S. Mhantati, “Architecture of E- Procurement System for Police Department,” Int. Conf. ICT Converg., vol. 2020- October, pp. 483–487, 2020, doi: 10.1109/ICTC49870.2020.9289562.
4	Robert, Y., Nigudkar, Y., Kulkarni, A., Mutha, N., Barve, P. (2021). Literature Survey: Application of Machine Learning Techniques on Static Sign Language Recognition. In: Abraham, A., Sasaki, H., Rios, R., Gandhi, N., Singh, U., Ma, K. (eds) Innovations in Bio-Inspired Computing and Applications. IBICA 2020. Advances in Intelligent Systems and Computing, vol 1372. Springer, Cham. https://doi.org/10.1007/978-3-030-73603-3_16
5	Patil, A., Kulkarni, A., Yesane, H., Sadani, M., Satav, P. (2021). Literature Survey: Sign Language Recognition Using Gesture Recognition and Natural Language Processing. In: Sharma, N., Chakrabarti, A., Balas, V.E., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. Lecture Notes on Data Engineering and Communications Technologies, vol 70. Springer, Singapore. https://doi.org/10.1007/978-981-16-2934-1_13
6	Barve, P., Mutha, N., Kulkarni, A., Nigudkar, Y., Robert, Y. (2021). Application of Deep Learning Techniques on Sign Language Recognition—A Survey. In: Sharma, N., Chakrabarti,

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

	A., Balas, V.E., Bruckstein, A.M. (eds) Data Management, Analytics and Innovation. Lecture Notes on Data Engineering and Communications Technologies, vol 70. Springer, Singapore. https://doi.org/10.1007/978-981-16-2934-1_14
7	C. Patil and A. Kulkarni, "Attention-based visual question generation," 2021 Int. Conf. Emerg. Smart Comput. Informatics, ESCI 2021, pp. 82–86, 2021, doi: 10.1109/ESCI50559.2021.9396956.
8	M. P. Lokhande and D. D. Patil, "Trust Computation Model for IoT Devices Using Machine Learning Techniques," Lect. Notes Networks Syst., vol. 169 LNNS, pp. 195– 205, 2021, doi: 10.1007/978-981-33-4073-2_20.
9	Janhavi Borse, Dr . Dipti Patil Dr . Vinod Kumar, " Deep Semantic Classification Of Visual Inputs For Hazard Free Lunar Landing," in Global Space Exploration Conference (GLEX 2021), St Petersburg, Russian Federation, no. 2, p. 62825, 2021.
10	R. L. Kolhe, A. Joshi, P. V. Mate, D. S. Gupta, and D. Patil, "A Pedagogical Adoption of Game Theory to Finance Technology in Big Data Analytics," Proc. 5th Int. Conf. Trends Electron. Informatics, ICOEI 2021, no. November, pp. 1727–1735, 2021, doi: 10.1109/ICOEI51242.2021.9452912.
Academic Year-2019 - 2020	
1	Shekapure, S., Patil, D.D. (2020). Learning Preferences Analysis by Case-Based Reasoning. In: Iyer, B., Deshpande, P., Sharma, S., Shiurkar, U. (eds) Computing in Engineering and Technology. Advances in Intelligent Systems and Computing, vol 1025. Springer, Singapore. https://doi.org/10.1007/978-981-32-9515-5_14
2	D. D. P. Dewanand A. Meshram, "5G Enabled Tactile Internet for Tele-Robotic Surgery," Procedia Comput. Sci. 171C, vol. 171C, no. 171C, pp. 2618–2625, 2020, doi: 10.1016/j.procs.2020.04.284.
3	S. S. More and D. D. Patil, "Wireless Sensor Networks Optimization Using Machine Learning to Increase the Network Lifetime," in Innovative Data Communication Technologies and Application, 2021, pp. 319–329.
4	P. Dahiwal and A. Kulkarni, "An analytical survey on image compression," Proc. World Conf. Smart Trends Syst. Secur. Sustain. WS4 2020, pp. 656–661, 2020, doi: 10.1109/WorldS450073.2020.9210364.
5	H. S. Wadkar and A. Mishra, "Secure Web Browsing Using Trusted Platform Module (TPM)," in Information and Communication Technology for Intelligent Systems, 2021, pp. 279–290.
Academic Year-2018 - 2019	
1	P. Patil, K. Patil, A. Kulkarni, S. Iyer, and I. Natu, "Detection of Hindi Textual Characters from an Image," Proc. - 2018 4th Int. Conf. Comput. Commun. Control Autom. ICCUBEA 2018, pp. 1–4, 2018, doi: 10.1109/ICCUBEA.2018.8697686.
2	S. Arora, S. Jahirabadkar, and A. Kulkarni, GPU Approach for Handwritten Devanagari Document Binarization, vol. 670. Springer Singapore, 2019. doi: 10.1007/978-981-10-8971-8_27.
3	D. D. Patil and V. M. Wadhai, Real-Time Meta Learning Approach for Mobile Healthcare, vol. 851. 2019. doi: 10.1007/978-981-13-2414-7_2.
4	R. Bhagwat, R. Kokare, and Y. Dandawate, "A Framework for Identification of Soybean Leaf Diseases," in Techno-Societal 2018, 2020, pp. 43–53.
5	C. Gavankar, A. Phatak, N. Thakkar, V. Patel, B. Pragda, and R. Lathkar, "A utility tool for personalised medicine," ACM Int. Conf. Proceeding Ser., pp. 1–6, 2018, doi:

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

	10.1145/3271553.3271562.
6	I. Talegaonkar, K. Joshi, S. Valunj, R. Kohok, and A. Kulkarni, "International Conference on Communication and Information Processing Real Time Facial Expression Recognition using Deep Learning," 2019, [Online]. Available: https://ssrn.com/abstract=3421486 https://dx.doi.org/10.2139/ssrn.3421486
7	P. Kumbhojkar, M. Jain, E. Rajalakshmi, S. Rawal, and S. Thombre, "Interface implementation for quantifying information spread on social networks," in 2018 IEEE 6th International Conference on MOOCs, Innovation and Technology in Education (MITE), 2018, pp. 48–51.
8	E. Rajalakshmi, P. Kumbhojkar, S. Rawal, M. Jain, and S. Thombre, "Implementation of the RnSIR Model," 1st Int. Conf. Data Sci. Anal. PuneCon 2018 - Proc., pp. 1–4, 2018, doi: 10.1109/PUNECON.2018.8745392.
9	S. Nene, S. Mundle, S. Mahajan, S. Yeginwar, and L. Panchal, "A Study of Vehicular Parking Systems," in ICICCT 2019 -- System Reliability, Quality Control, Safety, Maintenance and Management, 2020, pp. 207–215. doi: https://doi.org/10.1007/978-981-13-8461-5_23
Academic Year-2017 - 2018	
1.	I. Natu, S. Iyer, A. Kulkarni, K. Patil, and P. Patil, Text translation from hindi to english, vol. 905. Springer Singapore, 2018. doi: 10.1007/978-981-13-1810-8_48.
2.	S. P. Bobde, S. T. Mantri, D. D. Patil, and V. Wadhai, Cognitive depression detection methodology using EEG signal analysis, vol. 673. 2018. doi: 10.1007/978-981-10-7245-1_55.
3.	V. Makarand and K. Parag, "Unified algorithm for melodic music similarity and retrieval in query by humming," Adv. Intell. Syst. Comput., vol. 673, no. January 2018, pp. 373–381, 2018, doi: 10.1007/978-981-10-7245-1_37.
4.	S. Thombre, "Network Jitter Analysis with varying TCP for Internet Communications," 2018 3rd Int. Conf. Conver. Technol. I2CT 2018, pp. 1–7, 2018, doi: 10.1109/I2CT.2018.8529816.
Academic Year-2016 - 2017	
1	C. Gavankar, Y.-F. Li, and G. Ramakrishnan, "Explicit query interpretation and diversification for context-driven concept search across ontologies," in International Semantic Web Conference, 2016, pp. 271–288.
2	R. Bhagwat and Y. Dandawate, "Indian plant species identification under varying illumination and viewpoint conditions," in 2016 Conference on Advances in Signal Processing (CASP), 2016, pp. 469–473.
Academic Year-2015 - 2016	
1	C. Gavankar, Y. F. Li, and G. Ramakrishnan, "Context-driven concept search across web ontologies using keyword queries," Proc. 8th Int. Conf. Knowl. Capture, K-CAP 2015, 2015, doi: 10.1145/2815833.2816958.
2	A. Kulkarni, V. Tokekar, and P. Kulkarni, "Discovering context using contextual positional regions based on chains of frequent terms in text documents," Adv. Intell. Syst. Comput., vol. 385, pp. 321–332, 2016, doi: 10.1007/978-3-319-23258-4_28.
3	Kulkarni, A., Tokekar, V., Kulkarni, P., "Term weighting using contextual information for categorization of unstructured text documents", 12th IEEE International Conference Electronics, Energy, Environment, Communication, Computer, Control: (E3-C3), INDICON 2015, 2016, 7443216 doi: 10.1109/INDICON.2015.7443216
4	V. Wadhai, P. Agrawal, D. Patil, and S. Mantri, "Non Invasive EEG Signal Processing

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

	Framework for Real Time Depression Analysis,” SAI Intell. Syst. Conf., 2015, doi: 10.1109/INTELLISYS.2015.7361188
5	G. Dharmale, V. Thakare, and D. D. Patil, “Intelligent hands free speech based SMS system on Android,” 2016. doi: 10.1109/HMI.2016.7449177.
6	Thombre, S., Patnaik, L.M. and Bose, S.K., “TCP delay-friendliness”, In 2016 International Conference on Communication and Signal Processing (ICCSP).2016-17
7	Thombre, Sneha. "Modelling of UDP throughput." In 2016 IEEE Region 10 Conference (TENCON), pp. 482-487. IEEE, 201.
Academic Year-2014 - 2015	
1	A.Kulkarni, V. Tokekar, and P. Kulkarni, “Discovering context of labeled text documents using context similarity coefficient,” Procedia Comput. Sci., vol. 49, no. 1, pp. 118–127, 2015, doi: 10.1016/j.procs.2015.04.235.
2	M. R. Velankar, H. V. Sahasrabuddhe, and P. A. Kulkarni, “Modeling melody similarity using music synthesis and perception,” Procedia Comput. Sci., vol. 45, no. C, pp. 728–735, 2015, doi: 10.1016/j.procs.2015.03.141.

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

Other National / International Conference

Academic Year-2022-23	
1	Namira Faras, Abhilasha Gupta, Arya Deshpande, Vaishnavi Kolhe, Radhika Bhagwat, " A Review Paper on Employee Management System", International Conference on Business Innovation & sustainability: A Roadmap for Business Excellence, ISBN: 978-81-956810-6-8, https://www.journalpressindia.com/website/kls-imer-internationalconference2023/proceedings
Academic Year-2019 - 2020	
1	M. Velankar, "ISMIR Late-Breaking/Demo [Unrefereed] MUSIC EMOTION RECOGNITION FOR INDIAN FILM MUSIC," no. November, pp. 3–5, 2019.
Academic Year-2017 - 2018	
1	M. Velankar and P. Kulkarni, "Study of Emotion Perception for Indian Classical Raga Music," no. October, pp. 1–4, 2017.
2.	S. Pakale, N. Bokil, S. Bhandari, R. Roundale, and S. Thombare, "Developing An Android Application (Suvidha) For Pensioner Using Fingerprint Authentication," no. 6, pp. 74–77, 2017.
Academic Year-2016 - 2017	
1	Harshad Wadkar, Arun Mishra, Dixit Arati, "Automated Browser Security Using Configuration Analysis", in 2nd International Conference on Cyber Security (ICCS), 2016
Academic Year-2015 - 2016	
1	Anuja Sawant, Bhagyashree Pagare, Suchitra Morwadkar, "To Develop An Application To Facilitate Registration And Notification For Organ process", in Proceedings of 17th International Conference on Computer Science and Information Technology (IC- CIT 2016)
2	Leena S., Vivek Deshpande, " Comparative Study of Congestion in WSN", in National Conference on Recent Trends in Electronics, Telecommunications and Information Technology, NCRETIT 2015
3	Leena S., Vivek Deshpande, "Congestion Control using Prioritized Scheduling in Wireless Sensor Networks", iPGCoN 2016, Pune

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Information Technology

Books Published

1	Velankar, M. R., Mahalle, P. N., & Shinde, G. R. (2024). <i>Cognitive Computing for Machine Thinking</i> . Springer Nature.
2	Makarand Velankar, Leena Panchal (2023), "Design Thinking Primar", Tech Knowledge Publications.
3	Kamini Shirsat, Sharmishtha Desai and Dipti D. Patil, "Data Structure and algorithms", Gigatech publications, 2018, Pg-200, ISBN:978-81-936504-9-3 (2018-19)
4	Dipti Patil, Vijay M. Wadhai, "Dynamic Data Mining for Smart mHealth", ISBN: 978- 3-659-96262-2, LAP Lambert Academic Publishers, October 2016 (2016-17)

Book Chapters Published

Academic Year-2023-24	
1	Dharmale, G., Patil, D., Shekapure, S., Chougule, A. (2024). AI Based Medicine Intake Tracker. In: Anter, A.M., Elhoseny, M., Thakare, A.D. (eds) <i>Nature-Inspired Methods for Smart Healthcare Systems and Medical Data</i> . Springer, Cham. https://doi.org/10.1007/978-3-031-45952-8_2
Academic Year-2022-23	
1	Lokhande, Meghana P. and Dipti Durgesh Patil. "Object Identification in Remotely-Assisted Robotic Surgery Using Fuzzy Inference System." <i>Demystifying Federated Learning for Blockchain and Industrial Internet of Things</i> , edited by Sandeep Kautish and Gaurav Dhiman, IGI Global, 2022, pp. 58-73. https://doi.org/10.4018/978-1-6684-3733-9.ch004
2	Acoustic Material Monitoring in Harsh Steelplant Environments A Husaković, A Mayrhofer, A Abbas, S Strasser - <i>Applied Sciences</i> , 2023 - mdpi.com
Academic Year-2019 - 20	
1	Makarand Velankar, "Application of Machine Learning in Music Analytics", in <i>Machine learning Application</i> , Ed. Rik Das, Siddhartha Bhattacharyya and Sudarshan Nandy, Volume 5 in the series De Gruyter <i>Frontiers in Computational Intelligence</i> , pp 43-64, https://doi.org/10.1515/9783110610987
Academic Year-2016 - 17	
1	Anagha Kulkarni, "Long Live the New King of Big Data: Context", in <i>Big Data Analytics</i> , 2016, PP-50, Prentice Hall, ISBN-978-81-203-5116-5