



Name - Mr. Sumedh Vithalrao Dhole

Qualification- M.E.(E&TC- Microwave), Ph.D pursuing

Experience- 18.5 years

Portfolio at college level: Admission Councilor

Conferences: 04

Publications in Conferences:

1. Bhardwaj, S.; Baskar, S.; Marakala, V.; Prasannan; Gangodkar, D.; Dhole, S.V. , “FraudGuard Pro: An Ensemble-Based Feature Selection Algorithm for Credit Card Fraud Detection”, 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024, 2024. DOI: [10.1109/ICCCNT61001.2024.10724073](https://doi.org/10.1109/ICCCNT61001.2024.10724073)
2. Bhardwaj, S., Baskar, S., Marakala, V., Prasannan, Gangodkar, D, Dhole, S.V., “The intelligent optimization of AI/ML framework to Detect Network Abnormalities via Time Series Analysis”, 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024., DOI: [10.1109/ICCCNT61001.2024.10725899](https://doi.org/10.1109/ICCCNT61001.2024.10725899).
3. Bodhankar, A.; Gupta, V.; Premalatha, G.; Lakshmu Naidu, M.; Singh, D.P.; Dhole, S.V., “A new way of estimating the value of bandwidth for the end-to-end network using ABW algorithm” , International Interdisciplinary Humanitarian Conference for Sustainability, IIHC 2022 – Proceedings, DOI: [10.1109/IIHC55949.2022.10059687](https://doi.org/10.1109/IIHC55949.2022.10059687).
4. Bhardwaj, S.; Baskar, S.; Marakala, V.; Prasannan, D.; Gangodkar, D.; Dhole, S.V., “Privacy Preserving Based Personal Health Records Sharing Using Rail Fence Data Encryption (RFDE) for Secure Cloud Environment” , International Interdisciplinary Humanitarian Conference for Sustainability, IIHC 2022 , DOI: [10.1109/IIHC55949.2022.10060226](https://doi.org/10.1109/IIHC55949.2022.10060226).

Conference Attended: 03

1. RRRAI -2026 , International Conference Organized by Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune on April 03 April 2026 to 4 April 2026.

2. Sumedh Vithalrao Dhole, Sangeeta R. Chougule, “Analysis of Ulcerative Colitis Detection from Encoscopic Video”, 2025 12th International Conference on Computing for Sustainable Global Development (INDIACom), 10.23919/INDIACom66777.2025.11115504.
3. Sonali K Pawar, Anuradha S Nigade, Shankar R Madkar, Vikas P Kaduskar, Aparna S Patil, Sumedh V Dhole, “Design & implementation of smart Ventilator for respiratory Diseases”, 2023 International Conference on Computational Intelligence, Networks and Security (ICCINS)

Publications:

1. Sumedh Vithalrao Dhole, Sangeeta R. Chougule, “FastColitisDetector-XAI: An efficient AI model utilizing sparse Autoencoder with explainable AI for ulcerative colitis diagnosis”, *MethodsX*, Volume 14, June 2025, 103356, <https://doi.org/10.1016/j.mex.2025.103356>
2. Mohamed, N.; Awasthi, A.; Kulkarni, N.; Thota, S.; Singh, M.; Dhole, S.V., “Decision Tree Based Data Pruning with the Estimation of Oversampling Attributes for the Secure Communication in IOT”, *International Journal of Intelligent Systems and Applications in Engineering*.
3. Dr. Nachaat Mohamed, Mr. AishwaryAwasthi, Mandeep Singh, SumedhVithalrao Dhole, “Decision Tree Based Data Pruning with the Estimation of Oversampling Attributes for the Secure Communication in IOT”, in *International Journal of Intelligent Systems and Applications in Engineering (IJISAE)*, ISSN: 2147-6799, Nov- 2022, 10(2s), Page:212–216.
4. Sumedh V. Dhole, Srishti Upadhyay, Rishabh Dev Khare, Shivani Mishra, “Industrial Automation Using Android Application And Google Assistant” *International Research Journal of Engineering and Technology (IRJET)*-2020, ISSN:2395-0056, Volume: 7, Issue:1, page: 2200-2206.
5. Prof. Sumedh V. Dhole, Akshay Kumar, Mayank Gupta, Rishabh Arora, “Wireless Biometric Lock using Arduino with the IoT” *International Research Journal of Engineering and Technology (IRJET)*-2020, ISSN: 2395-0056, Volume: 7, Issue:9, page: 2699-2703.
6. Mr. S V. Dhole, Dr. P B Mane, “Rectangular Shaped Patch Antenna Design for WLAN (2.4 GHz)” *International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)*-2019, ISSN: 2277-6451, Volume: 9, Issue:5, page: 49-53.
7. Mr. S V. Dhole, Dr. P B Mane, “Review on rectangular shaped micro-strip patch antenna (RMSA) for WLAN” *International Journal of Current Engineering and Scientific Research (IJCESR)*-2019, ISSN: 2393-8374, Volume: 6, Issue:5, page: 53-57.
8. Sumedh V. DholeDevika Verma, Shreel Sugandhi, “Data Channeling And Home Automation Via Optical Fiber Cable” *International Journal Of Current Engineering And Scientific Research (IJCESR)*-2018, ISSN:2394-0697 Volume: 5, Issue:7, page: 91-95.
9. Sumedh V. Dhole, B.V.D.U.C.O.E, Pune, Yash Bais, Piyush Sharma, “Ultrasonic Blind Walking Stick” in *International Journal Of Current Engineering And Scientific Research (IJCESR)*-2018, ISSN: 2393-8374, Volume: 5, Issue:6, page: 110-113.
10. Mr. S V. Dhole, Dr. P B Mane, “Review of Solar Energy Measurement System”, in *International Journal on Recent and Innovation Trends in Computing and Communication, IJRITCC*, January 2017, ISSN: 2321-8169 Volume: 5 Issue: 1, page: 272 – 275.

11. Sumedh V. Dhole, Anmol Grover, Saurav Kumar, Jitendra Kumar, “Solar energy measurement system using pic”, in International Journal Advanced Computer Electronics Technology (IJACET), 2017.
12. Mr. S V. Dhole, and Dr. P B Mane, “*Omni-directional rectangular micro-strip antenna for WLAN*” *IJARCSSE, Issue 9 Volume 4, September 2014.*
13. Mr. S V. Dhole, , “*City Bus Tracking system*” IJESRT in May-2014, [ISSN: 2277-9655]
14. Mr. Sumedh V. Dhole & Priyamvada Bajpai , “ A Methodoly for Landslide Measurement” , International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE)-2014, ISSN: 2277 128X Volume: 4 Issue: 7, page:1045-1050.