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Name – Dr. Prajakta Naregalkar

Qualification- M.Tech PhD

Experience-18.2 Yrs

Portfolio at college level:

- 1. Alumni Co-ordinator**
- 2. Member of Central Library committee**
- 3. Lab in-charge**

Conferences:

1. Ms.Prajakta Kulkarni, Prof.N.Srivastava, "Sensors in Railway track accidents Avoidance" National conference on futuristic Application in Electronics Engineering by IETE Pune NCFAEE 2011
2. Ms.Prajakta Kulkarni, Prof.N.Srivastava, "International conference on Electrical & Electronics Engineering"(ICEEE-2013) on 27th January Goa, India organized by IOAJ
3. Mrs.Prajakta Naregalkar Mrs.M.S.Chavan, A National conference on Advanced technologies for secured communication using 4G & LTE (ATSC-2014) Feb 5-6 2014
4. Naregalkar, P.R., Shinde, A.A. (2023). Different Approaches of Diagnosing Depressed and Non-depressed Patients. In: Tiwari, M., Ismail, Y., Verma, K., Garg, A.K. (eds) Optical and Wireless Technologies. OWT 2021. Lecture Notes in Electrical Engineering, vol 892. Springer, Singapore. https://doi.org/10.1007/978-981-19-1645-8_21
5. Naregalkar, Prajakta Rohan, Arundhati A, Patil, Mangal Depression Diagnosis Using Linear Features Based on EEG Signals 2023 International Conference on Computational Intelligence, Networks and Security (ICCINS)
6. Patil Mangal, Kulkarni Prajakta, Patil Aparna, Morbale Jyoti, Aggarwal Saloni, Priya Padma "Enhancing Public Health Measures with AI and MobilenetV2 for Face Mask Detection", Proceedings of 2024 IEEE International Conference of Electron Device Society Kolkata Chapter, EDKCON 2024,

Conference Paper 2024.Institute of Electrical and Electronics Engineers Inc. 30 November 2024 - 1 December 2024,Pages 258 – 263, ISBN 979-835037464-3 DOI: 10.1109/EDKCON62339.2024.10870862

Publications:

1. Ms.Prajakta Kulkarni, Prof.N.Srivastava, Smart Multi Sensor Network for Forest Fire Detection” International Journal of Electronics, Electrical and Communication Engineering” No.1 Jan–June 2012 issue of the journal.
2. Ms.Prajakta Kulkarni, Prof.N.Srivastava,’Coverage Strategies in Wireless Sensor Network’ International Journal of Electronics, Electrical and Communication Engineering” No.1 Aug–Dec 2012 issue of the journal
3. Samir Chopra, Suman Bharti, Tarun Singh Negi, P. D Kulkarni, “Missile Detection by Ultrasonic and Auto Destroy System,” international Journal of Engineering Sciences & Research Technology (IJESRT) May 2014
4. Supriya Hasarmani, Mangal Patil, P. R. Naregalkar “Digital Video Watermarking using DWT-DFT Transforms & SVD technique” International Journal of Computer Science and Network (IJCSN) Vol.04,Issue 6,Dec 2015.
5. Prabhat Ranjan, Shubham Kumar, Sujit Kumar,Prof. P.R.Naregalkar, “Smart Solar Emergency Lamp with Motion Detector” International journal of Engineering and Technology(IRJET) Vol:03 Issue”05 May 2016
6. P.R,Naregalkar Nishtha joshi,Parag verma,Piyush Bhatia “Wireless Water Level Indicator and Controller Using PIC Microcontroller”. International Journal of Current research(IJCR) Vol.8, Issue, 02 Feb 2016
7. P.R.Naregalkar, Chirag Nangia, Arun Kumar, Apoorv Raj “Voice Controlled L.E.D. Matrix Display”.International Journal of Advanced Research in Electrical,Electronics and Instrumentation EngineeringVol.6,Issue 3, Apr 2017.
8. P.R. Naregalkar, Krishna Kishore Thanvi, Rajat Srivastava, “Iot Based Smart Garbage Monotoring”System”.International Journal Of Advanced Research In Electrical,Electronics And Instrumentation Engineeringvol.6,Issue 05, May 2017.
9. Sagarika Lal, Shivani Patil, Rahul Kumar, Prof P R Naregalkar “Smart Medical Box Using PIC Microcontroller”.Journal of Emerging Technologies and Innovative Research Vol.5,Issue 5,May 2018
10. Yashwant singh, Kataliha ,Anurag Mishra , Vishal , Prajakta Naregalkar, Patil M.V, “ Music Identification based on Audio-Fingerprinting” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 03 Issue: 06 | June - 2019

11. Mrs.P.R.Naregalkar,Mrs.J.S.Morbale "A Novel Energy Aware Protocol in WSN", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 5 May 2019
12. Mrs J.S Morbale,Mrs.P.R.Naregalkar "Smart Antenna Technology for Wireless Communication System", International Journal of Emerging Technologies and Innovative Research ISSN:2349-5162, Vol.6, Issue 4 April 2019
13. Vedsagar, Rohan gaur, Aditya Raj Mishra, Prajakta Naregalkar, “ Railway Track Crack Detection System by GPS & GSM” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 04 Issue: 07 | July -2020
14. Ritu Chaudhary, Shreya Saraswat, Siddhant Chaturvedi, Prof.Prajakta Naregalkar, Speech Emotion Recognition Using Neural Network” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 04 Issue: 08 | August -2020
15. Ritu Gour, Saloni Kothari, Shivangi Dubey, Mrs Prajakta Naregalkar, “ONLINE ATTENDANCE USING FACE RECOGNITION” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 05 Issue: 09 | September -2021
16. Nimit Sharma , Kevin Vijay , Shubham Jaiswal , Prajakta Naregalkar,“MAGIC GLOVE (SIGN TO VOICE CONVERSION)” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 05 Issue: 09 | September -2021
17. P.R. Naregalkar, J.S. Morbale, Md. Atif Khan, Shrishti Singh, Souvik De,”Smart Intrusion Detection System” International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 06 | June - 2022 Impact Factor: 7.185 ISSN: 2582-3930
18. Mrs. J.S. Morbale , Mrs. P.R. Naregalkar , Anushka Singh, Priyanshu Dwivedi, Raghav Mathur, “Quadcopter Drone with Face Recognition”, International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 06 | June - 2022 Impact Factor: 7.185 ISSN: 2582-3930.
19. Patil Mangal, Naregalkar Prajakta, Tondare Sharda, Morbale Jyoti, Patil Aparna, “Estimation of breathing signal and the respiratory parameters from the speech recordings using honey badger-based modular neural system”, Multimedia Tools and Applications (Springer), Article September 2024, 2024, ISSN 13807501, Volume 83, Issue30, Pages 73957 – 73982. DOI: 10.1007/s11042-024-18353-2
20. Patil Aparna, Patil Mangal, Tondare Sharda, Naregalkar Prajakta, Nigade Anuradha, Morbale Jyoti, “Harnessing the MERN stack for scalable E-commerce website design: A full-stack approach with MongoDB, Node.js, Express.js, and React.js” Journal of Integrated Science and Technology, Article 2025, 2 April 2025. ISSN 23214635. Volume 13, Issue 5. Article number 1116 DOI:10.62110/sciencein.jist.2025.v13.1116

21. P.Naregalkar,A.Shinde,and M. Patil,“A machine learning approach based on EEG signals for detection of depression,”*Engineering Research Express*, vol. 7, no. 4, Nov. 2025
22. P.R. Naregalkar, A.A. Shinde, M.V. Patil, Artificial intelligence driven mental health diagnosis based on physiological signals, *MethodsX*, Volume 14,2025,103358,ISSN215-0161,<https://doi.org/10.1016/j.mex.2025.103358>

Patents/ Copyright: NIL

Projects/ Achievements:

1. Received trophy in appreciation for fostering an ecosystem bridging Government, Industry and academia in association with DST & Texas Instruments in India Innovation Challenge Design Contest 2018.
2. online certification course: on “Cloud Computing” IITKharagpur-8 weeks course, February-April 2019.
3. online certification course: “Introduction to Internet of Things”-IIT Kharagpur -12 weeks course, July-October 2019