

SUSHMA NAGDEOTE – Curriculum Vitae



NAME : Sushma Nagdeote
DESIGNATION : Assistant Professor
QUALIFICATION : ME (Electronics), PhD (Pursuing)
EMAIL : sushman@fragnel.edu.in
AREAS OF INTEREST: Image Processing,
Digital Electronics, Artificial
Intelligence, Machine Learning

PROFESSIONAL BACKGROUND :

1 st April 2004 - 30 th June 2004	VCET	Teaching Assistant
5 th July, 2004 - 5 th July, 2005	VCET	Lecturer
5 th July, 2005 - Till date	Fr. CRCE	Assistant Professor

EDUCATIONAL DETAILS :

B.E. (Electronics)	Nagpur University/ BDCOE	1996-2000
ME(Electronics)	Mumbai University/ Fr. C.R.C.E.	2009-2011
PhD (Electronics) Registration Number: 17/03-06-2021	Mumbai University/ Fr. C.R.C.E.	Pursuing (Submitted Thesis)

ADMINISTRATIVE BACKGROUND :

- Member of Women Development Cell

PUBLICATIONS:

1. Sushma Nagdeote and Sapna Prabhu, “A model to perform prediction based on feature extraction of histopathological images of the breast”, Multimedia Tools and Application (2023). Track 2: Medical Applications of Multimedia, <https://doi.org/10.1007/s11042-023-16245-5>.
2. Sushma Nagdeote and Sapna Prabhu, Jayashri Chaudhari, “Enhanced Power Law Transformation for Histopathology Images of Breast Cancer”, International Journal of

Image and Graphics, (2024), 0219-4678, <https://doi.org/10.1142/S0219467825500287>

3. Sushma Nagdeote, Sapna Prabhu, Jayashri Chaudhari, Enhanced Computer-aided Digital Imaging Technique for Predictions in Breast Cancer, Recent Advances in Electrical & Electronic Engineering; Volume 18, Issue 3, Year 2024, e23520965282930. DOI: 10.2174/0123520965282930240417113057
4. Sushma Nagdeote and Sapna Prabhu, "A Review on Computer-assisted Techniques to Analyze Histopathological Images of the Breast," 2023 International Conference on Power, Instrumentation, Energy and Control (PIECON), Aligarh, India, 2023, pp. 1-6, doi: 10.1109/PIECON56912.2023.10085880
5. Sushma Nagdeote and Sapna Prabhu, "Enhanced U-Net Framework for Nuclei Segmentation in Triple Negative Breast Cancer," *2024 Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)*, Coimbatore, India, 2024, pp. 1321-1326, doi: 10.1109/ICoICI62503.2024.10696356
6. S. S. Chiwande, P. Nipane, H. Bakre, P. Raut, P. Badole and S. Nagdeote, "Design and Implementation of Efficient Public Transport System Using Raspberry Pi," 2024 Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI), Coimbatore, India, 2024, pp. 533-537, doi: 10.1109/ICoICI62503.2024.10696348.
7. Sushma Nagdeote and Sapna Prabhu., "Hybrid UNet Architecture based on Residual Learning of Fundus Images for Retinal Vessel Segmentation", in IOP: Journal of Physics, 2021, vol. 2070, doi:10.1088/1742-6596/2070/1/012104.
8. Sushma Nagdeote, Jonathan Dabre, Zane Falco, Sujata Chiwande, "Energy Consumption Calculator with Prediction of Peak Demand and Per Capita Electricity Consumption using Linear Regression" (In Process)
9. Nagdeote, S., Singh, S., kalambe, A., Gomes, A., Bhupatwar, A. (2024). A Framework to Detect Social Distancing Violation and Mask Use in Public Places. In: Pant, M., Deep, K., Nagar, A. (eds) Proceedings of the 12th International Conference on Soft Computing for Problem Solving. SocProS 2023. Lecture Notes in Networks and Systems, vol 994. Springer, Singapore. https://doi.org/10.1007/978-981-97-3180-0_59
10. Sushma Nagdeote, Sania Charles Tuscano, Sakshi Aruna Shetty, Jesica Johny Dsouza, "Detection And Prevention of Game Addiction in Children", 12th International Conference on Soft Computing for Problem Solving Moving Towards Society 5.0, August 11 -13, 2023, Organized by The Department of Applied Mathematics and Scientific Computing, IIT Roorke. (Publication in process)

11. Sushma Nagdeote, Heenakausar Pendhari, Omkar Shirsat, Raj Lad, Sujata Chiwande, "Esports Analysis with Data Science", AIP Conf. Proc. 2764, 060013 (2023), <https://doi.org/10.1063/5.0144108>, **Best Paper Award for Technical Paper "Esports Analysis with Data Science" presented in iCATCHCOME 2022.**
12. Nagdeote, S., Pendhari, H., John, M. and Agrawal, S. (2023) "An Approach to Detect Driver Drowsiness in Real Time using Facial Landmarks", SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology, 15(01), pp. 161-165. doi: 10.18090/samriddhi.v15i01.21
13. S. S. Chiwande, P. Meshram, A. Charde, S. Bhawe and S. Nagdeote, "Machine Monitoring for Industry using Computer Vision," 2022 IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), Gwalior, India, 2022, pp. 1-4, doi: 10.1109/IATMSI56455.2022.10119424.
14. Chiwande, S.S., Bagade, A., Deshmukh, S., Nagdeote, S. (2022). Detection of Stress with Deep Learning and Health Parameters Monitoring Using Raspberry Pi. In: Mallick, P.K., Bhoi, A.K., González-Briones, A., Pattnaik, P.K. (eds) Electronic Systems and Intelligent Computing. Lecture Notes in Electrical Engineering, vol 860. Springer, Singapore. https://doi.org/10.1007/978-981-16-9488-2_25
15. Pendhari, Heenakausar and Nagdeote, Sushma and Rathod, Sandeep and Khan, Lubna and Vishwakarma, Saurabh, Compound Emotions: A Mixed emotion detection (May 26, 2022). SSRN: <https://ssrn.com/abstract=4120265> or <http://dx.doi.org/10.2139/ssrn.4120265>
16. N. Jaymon, S. Nagdeote, A. Yadav and R. Rodrigues, "Real Time Emotion Detection Using Deep Learning," 2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 2021, pp. 1-7, doi: 10.1109/ICAECT49130.2021.9392584.
17. Nagdeote, S., Chiwande, S. (2020). Parametric and Nonparametric Classification for Minimizing Misclassification Errors. In: Shukla, R., Agrawal, J., Sharma, S., Chaudhari, N., Shukla, K. (eds) Social Networking and Computational Intelligence. Lecture Notes in Networks and Systems, vol 100. Springer, Singapore. https://doi.org/10.1007/978-981-15-2071-6_35
18. S. Chennattu, A. Kelkar, A. Anthony and S. Nagdeote, "Portable Biometric Attendance System Using IOT," 2019 4th International Conference on Information Systems and Computer Networks (ISCON), 2019, pp. 245-249, doi: 10.1109/ISCON47742.2019.9036275.

19. Sushma Nagdeote, "Detection of Lung Nodule Using Image Processing Techniques", International Journal Of Creative Research Thoughts Vol 6 Issue 2, 2320-2882, April-18, <http://doi.one/10.1729/IJCRT.17923>
20. Sushma Nagdeote, Jagruti Save, "A wrapper based approach for medical imaging" paper presented and published in the proceedings of international conference held at YCCE , Nagpur, 2011.

PATENT:

1. TITLE: A SYSTEM FOR ATTENDANCE MANAGEMENT AND A METHOD THEREOF

APPLICATION NO.: 202321050754

APPLICANTS: Sushma Fattuji NAGDEOTE/Sandesh RAUT/Amey BAGWE/Wesley Jude LEWIS/Vailantan FERNANDES

Published on 29/09/2023

TRAINING PROGRAMS CONDUCTED :

1. Co-ordinator of One week ISTE approved STTP on the topic 'Accreditation & Quality Assurance: Outcome Based Quality Education' November 17-21, 2014.
2. Co-ordinator of One Week Faculty Development Program on "Advances in Internet of Things", Organized by Department of Electronics and computer science at Fr. Conceicao Rodrigues College of Engineering, Agnel Ashram, Bandra(W), from 29th May to 2nd June 2019.
3. Co-ordinator for Two days in Two Week Indian Society for Technical Education (ISTE) approved FDP on Research Areas in Technologies for Rural and Societal Development, Organized by Fr. CRCE, Department of Electronics and Computer Science, 21 Dec 2020 - 1st Jan 2021

PARTICIPATION IN TRAINING PROGRAM:

1. NITTT Module 1 on " Orientatio Towards Technical Education and Cirriculum Apsects", February 2024
2. NITTT Module 2 on Professional Ethics and Sustainability, February 2024
3. NITTT Module 3 on Communication skills, Modes and Knowledge Dissemination, February 2024
4. NITTT- Module 4: instructional planning and delivery, September 2024

5. NITTT-Module 5: Technology Enabled Learning and Life-Long self Learning, February 2024
6. NITTT-Module 6: Student Assessment and Evaluation, February 2024
7. NITTT- Module 7: Creative problem solving, Innovation and meaningful R & D, September 2024
8. NITTT-Module 8: Institutional Management and Administrative Procedures., September 2024
9. Faculty Patent Development Program, 31st July-5th Aug, 2023 at Fr. C.R.C.E., Bandra.
10. ATAL-FDP on Blockchain Technology: Architecture and its Application, 04th Dec to 09th December 2023 at Fr. C.R.C.E., Bandra.
11. FDP on NLP and Deep Learning, 30/09/22 and 3/10/22, at Fr. C.R.C.E., Bandra.
12. ISTE approved workshop on 'Robotics and its Application' at Fr. C.R.C.E., Bandra May 26-30, 2008
13. A 2 day seminar on 'Advanced Wireless Technologies' at Fr. C.R.C.E., Bandra ", September 22-23, 2009
14. ISTE approved workshop on 'PIC Controllers and Arm Processor' at PVPPCOE January 18-22, 2010
15. ISTE approved workshop on 'Upcoming Trends in Biomedical Engineering' at WIEECT, July 4-15, 2011
16. ISTE approved workshop on 'Mission 10X' at Fr.C.R.C.E., Bandra ", August 1-5, 2011
17. ISTE approved workshop on "Power Electronics Applications" at Fr. C.R.I.T., Vashi , April 16-20, 2012
18. ISTE workshop on 'Simulation: Concept to Practice" at Fr. C.R.C.E., 14th - 25th May, 2012
19. Two Day Zonal workshop on 'Sexual Harrasment of women at workplace (Prevention, Prohibition and Redressal) ACT, 2013 and Related Issues' organized by WDC, University of Mumbai and K.P.B. Hinduja College of Commerce, Charni Road, September 7-8, 2015
20. Seminar on 'Designing and Implementing Signal Processing, Computer Vision and Communication Systems using MATLAB and Simulink' organized by DesignTech Systems Ltd. In association with Fr. C. Rodrigues Institute of Technology, 12th April 2016.
21. Workshop on 'Research opportunities in speech and language processing' organized Xavier Institute of Engineering, Department of Electronics and Telecommunication Engineering, 9-13 January, 2017
22. Workshop on 'Hands on Training on Python coding and Remote Lab Learning', organized by Fr. C.R.C.E., on 10th & 11th February, 2017

23. Industrial Automation: Hands ON, KJSCOE, Vidyavihar, 04th 8th June, 2018
24. AICTE-ISTE Approved STTP on “Hands on Cross Platform Mobile Application Development and IOT” Fr. CRIT, Vashi, 07th – 11th May, 2018
25. A seminar on "Godas an Engineer" on Feb. 22nd,2019 by Prof. Aleksandar Zecevic from Electrical Engineering Department, Santa Clara University, CA, USA organized by Xavier Institute of Technology, Mahim.
26. ISTE approved one week STTP on “Artificial Intelligence, Machine and Deep Learning: Hands On” Organized by department of computer engineering and Department of Information Technology from 24th June to 29th June, 2019.
27. Indian Society for Technical Education (ISTE) approved One Week Short Term Training Program on “Python Basics, Machine Learning and Blockchain”, Organised by Computer Engineering Department of K J Somaiya Institute of Engineering and Information Technology, Mumbai. 8th to 13th June 2020
28. One week National Level Faculty Development Programme "CREATING TECH-SAVVY TEACHERS FOR FUTURE CLASSROOMS", Organized by Internal Quality Assurance Cell of St. Teresa's Institute of Education, Santa Cruz (West), Mumbai, India in collaboration with EdFly Learn ~ Learning Management Solutions. 6th to 10th June, 2020.
29. National Level Workshop on “Deep Learning” conducted by Department of CSE, FET, Jain Deemed to be University, Bangalore held on 6th June 2020. In association with CSI
30. National level Webinar on “Machine Learning” organised by Sasmira’s Institute of Commerce & Science in Association with Squad Infotech Pvt.Ltd on 6th & 7th June 2020.
31. FDP on “Enhancing Research Work of Ph.D. Aspirants through Systematic Approach” from 8th June, 2020 to 10th June, 2020. LO KMANYA TILAK COLLEGE OF ENGINEERING Sector - 4, Vikas Nagar, Koparkhairane, Navi Mumbai – 400709 DEPARTMENT OF MECHANICAL ENGINEERING in association with INDIAN INSTITUTE OF INDUSTRIAL ENGINEERING NHQ CBD Belapur, Navi Mumbai
32. Seminar on “Scope and Opportunities in ASIC Verification” organized by Department of Electronics and Computer Science on 7th June, 2020
33. Faculty Orientation Program on Digital Logic and Computer Organization and Architecture organized by Datta Meghe College of Engineering, Department of Computer Engineering on behalf of University of Mumbai conducted on 15/07/2020
34. Two Week Indian Society for Technical Education (ISTE) approved FDP on Research

Areas in Technologies for Rural and Societal Development, Organized by Fr. CRCE, Department of Electronics and Computer Science, 21 Dec 2020 - 1st Jan 2021

35. One Week Instructor Led Live online “ Hands-on Training on Deep Learning Using Medical Data”, Organized by Finland Labs (Unit of Revert Technology Pvt. Ltd.), 08- 12 February 2021

36. National Level one week Faculty Development Program “Multi-Technology”, In association by Brainovision solutions(Ind) Pvt. Ltd. And National Youth council of India, Nishitha Degree College, Nizamabad, 28 June, 2021 – 3 rd July 2021

37. National Level Three Days Faculty Knowledge Sharing Programme on “Data Analytics Essentials” from 8 th July to 10th July 2021 organised by Internal Quality Assurance Cell (IQAC), Nishitha Degree College, Nizamabad, Telangana in collaboration with IBS, ICFAI Business School, Hyderabad

38. Two Weeks Hands-on Online Workshop Series on MATLAB for Engineering & Science. The workshop module code “EXEWEE03: Signal & Image Processing using MATLAB”. 03 - 17, July 2021, Organized jointly by the ELIXIR Educational Services, Chhattisgarh and The PRIME ACADEMY, Tamil Nadu, India.

39. Mentoring for Students' Success - Talk for ECS Faculty by Dr. Saurabh Mehta, Sat Aug 28, 2021

40. Online session on “LEAP-Lead Entrepreneur Acceleration Program-An introductory talk to cultivate entrepreneurship culture” , on 18th September,2021. By Technoceutics India Pvt. Ltd., Dept. of EE, IIT Bombay

41. AICTE-ISTE Approved Orientation/Refresher Programme on “Future Trends in Biomedical Engineering”, Organized by NMIMS, 08/12/2021 to 14/12/2021

42. AICTE-ISTE Approved Orientation/Refresher Programme on “Deep Learning and its Application”, Organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion. 13/12/2021 to 18/12/2021

43. Two Weeks Training On Machine Learning Using Python, Conducted By Apptronix Technologies – Noida, 21st Feb 2022 To 05th Mar 2022

PROFESSIONAL AFFILIATIONS:

ISTE Life Member (LM 57637)

