

Faculty Profile

Name **Madhuri Sachin Wakode**

Designation Assistant Professor

Department Computer Engineering

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Educational Qualifications

Degree	University/Institution	Year of Passing
Ph.D.	SPPU (Research Center: PICT)	Pursuing
M.E. (Computer)	PICT, SPPU	2011
B.E. (Computer)	SSGMCoe, SGBU	2002

Professional Experience

Sr. No.	Designation & Institute	Duration
1	Assistant Professor, PICT Pune	August 2005 - Present
2	Lecturer, SSGM College of Engg., Shegaon	July 2004 - April 2005
3	Lecturer, SSGM College of Engg., Shegaon	August 2002 - May 2004

Research Publications

Sr. No.	Title	Publication/Conference
1	Real-time Detection of Students' Cellphone Usage During Lectures and Behavioral Analysis	2024 International Conference on Computational Intelligence and Computing Applications (ICCICA)
2	Distributed MQTT Broker: A Load-Balanced Redis-Based Architecture	2024 International Conference on Emerging Smart Computing and Informatics (ESCI)
3	Contextual flow of information in tourism using BLE proximity detection to enhance the tourism experience	2023 International Conference on Emerging Smart Computing and Informatics (ESCI)
4	Carbon Monoxide Concentration Monitoring System for Automating Air Filters	2023 International Conference on Emerging Smart Computing and Informatics (ESCI)

5	Multi-parameter-based mango grading using image processing and machine learning techniques	INFOCOMP Journal of Computer Science, 2020
6	Computer vision based automated mango grading–a review	Journal of Postharvest Technology, 2020
7	A Survey on Visual Questioning Answering: Datasets, Approaches and Models	International Journal of Scientific & Technology Research, 2020
8	Survey: Sentiment Analysis of Twitter Data for Stock Market Prediction	International Journal of Innovative Research in Computer and Communication Engineering, 2017
9	Coverage DB: A Tool for Intelligent Selection of Tests	International Journal of Computer Applications, 2017
10	A Survey on Regression Test Selection Techniques	International Journal of Innovative Research in Computer and Communication Engineering, 2017

Patents

Sr. No.	Title	Publisher & Year
1	SYSTEM AND METHOD FOR AUTOMATED EVALUATION OF MULTIMODAL CONTENTS	Indian Patent, Granted on 11/01/2024
2	PERSONALIZED PHYSICAL ACTIVITY RECOMMENDATIONS SYSTEM USING FEDERATED LEARNING (FL) AND A METHOD	Indian Patent, published on 15/09/2023
3	HYDROPONIC NUTRIENT PREDICTION DEVICE USING IOT	Indian Patent, published on 18/08/2023
4	SYSTEM AND METHOD FOR ANALYSIS OF HUMAN MOVEMENT AND SUGGESTIONS OF AMENDMENT IF ANY	International Patent (South Africa), granted on 20/12/2023

Books/Books Chapters Published

Sr. No.	Title	Publisher & Year
1	Book Chapter in <i>Unmanned Aerial Vehicles for Internet of Things (IoT Concepts, Techniques, and Applications: “Blockchain - Based Solutions for Various Security Issues in UAV - Enabled IoT”</i>	John Wiley & Sons, 2021
2	Book Chapter in <i>Unmanned Aerial Vehicles for Internet of Things (IoT Concepts, Techniques, and Applications: “Role of AI and Big Data Analytics in UAV-Enabled IoT Applications for Smart Cities”</i>	John Wiley & Sons, 2021

Conferences / Seminars Attended

Sr. No.	Conference/Seminar	Year
1	Springer Conference – SmartCom 2025	2024
2	IEEE Conference – ESCI 2023	2023

Consultancy Completed

Sr. No.	Details	Year
1	Intelligent Document Processing: The consultancy services, which included Intelligent Document Processing for invoice verification, cloud integration and security, worth Rs. 5,48.114/-	2023 - 2024

Other Experience

Sr. No.	Award/Recognition	Year
1	Reviewer for IEEE Transactions on Intelligent Vehicles, May 2022	2022
2	Session Chair, Reviewer for International Conferences	2022, 2023, 2024
3	Resource person in training programs on Distributed Systems, Blockchain, Cryptography, Object Oriented Programming	2019 - 2023

Areas of Interest

Sr. No.	Area
1	Artificial Intelligence and Machine Learning
2	Distributed Systems
3	Internet of Things
4	Information Security