

Name **Mrs. Madhura Kaustubh Zagade**
B.E.(CE), M.E.(CSE)

Designation Assistant Professor

Department Computer Science and Engineering(AI & ML)

Date of Joining the Institute 21/07/2022

Education Master of Engineering in Computer Science and Engineering, DYPCET, Kolhapur, Shivaji University, May 2022.
Bachelor of Engineering in Computer Engineering, RMCET, Devrukh, University of Mumbai, May 2012.

Branch / Specialization Computer Science and Engineering

Areas of Interest Database Management System, Java Programming, Machine Learning, Cloud Computing

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Academic Appointments

Name of the University / Institute/ Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 21/07/2022 till date	Assistant Professor
JNMEI, Nanij(11 and 12 science-Information Technology))	From June 2021- April 2022	Lecturer
Rajendra Mane Polytechnic, Ambav	From 01/06/2014 to 31/03/ 2018	Assistant Professor
Khare -Dhere College(BSC- IT), Guhagar.	From June 2013 - May 2014	Assistant Professor
Total Experience – _9__Years		

Papers Published

Papers Presented/Published in National / International Journals - 02

International Journals – 01

1. Paper published titled "IoT Based Battery Management System", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), e-ISSN: 2319-8753, Volume 13, Issue 4, April 2024.
2. Paper published titled "Development of Machine Learning Model Using Least Square-Support Vector Machine, Differential Evolution and Back Propagation Neural Network to Detect Breast Cancer", International Journal of Engineering Research and Technology, ISSN 0974-3154 Volume 10, Number 2017.

Papers Presented/Published in National/ International Conferences - 02

International Conferences – 01

1. Paper published titled "Development of Machine Learning Model Using Least Square-Support Vector Machine, Differential Evolution and Back Propagation Neural Network to Detect Breast Cancer", 4th International Conference on Smart Computing and Informatics, 2021.(Springer, Volume 224).

National Conferences – 01

1. Paper published titled "Development of Machine Learning Model Using Least Square-Support Vector Machine, Differential Evolution and Back Propagation Neural Network to Detect Breast Cancer", National Conference on Changing Technology and Rural Development

Students projects Guided at UG/PG/Doctoral Level

Projects Guided at UG Level

Project Title: "IoT Based Battery Management System" (AY: 2023-24)

Abstract: In our rapidly evolving technological landscape is an efficient and intelligent management of energy storage systems is paramount. This project introduces a modern Battery

Management System module to optimize the performance, ensure the safety, and promote sustainability of rechargeable batteries. Leveraging cutting-edge technologies such as

microcontrollers and Internet of Things (IoT). The integration of renewable energy sources and the increasing demand for portable electronic devices have led to a growing need for efficient energy storage solutions. This project presents a BMS that employs Arduino microcontrollers and Internet of Things. A BMS is introduced in this paper to continuously monitor and analyse battery temperature during charging and discharging process. The BMS includes block diagrams and uses methods like Coulomb counting for State of Charge estimation and CCCV for State of Health assessment. Data, including battery status, temperature, and voltage, are automatically stored on the IoT platform Thing speak, allowing for thorough battery analysis and prompt issue resolution.

Number of Workshops, Seminars, STTPs, FDPs Attended – 13

STTPs and FDPs

1. Completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "PRINCIPLES, TECHNIQUES AND PERSPECTIVES ON OPTIMIZATION TECHNIQUES IN ENGINEERING APPLICATIONS AND FUTURE TRENDS" on 20th January to 25th January 2025.
2. Completed One Week International FDP completed on "AI for sustainable Development" on 5th August 2024 to 9th August 2024.
3. Participated & attended National level Webinar on "Cyber Threats and Emerging Technologies in Cyber Security" on 31th July 2024.
4. completed the ISTE approved Self-Financing FDP on "Effective AI Tools Enhancing Teaching, Learning and Research" on 1st July to 6th July 2024.
5. Completed One Week FDP on "Mastering Modern Deep Learning And Data Science" on 26th February to 2nd March 2024.
6. Completed One Week Online FDP on "Empowering Educators: Advancements in Computing Pedagogy" on 12th February to 17th February 2024.
7. Completed Five Days International Virtual FDP on "Emerging Trends in Data Analytics" on 22th January to 26th January 2024.
8. Completed Five Days national Online FDP on "RESEARCH METHODOLOGY: ETHICS & PUBLICATIONS" on 22th January to 26th January 2024.
9. Completed National Level One Week Online Faculty Development Programme on "Generative AI using Chatgpt" on 15th January to 19th January 2024.
10. Completed Two day online FDP on "Big Data Analytics: Basics to Advanced" organized by the Electronics & Computer Science Department on 20th July & 21st July 2023.
11. Completed ISTE Approved One Week Online FDP on AI Algorithms and Applications in Healthcare, from 19th June to 23rd June 2023.

12. Completed Two- week ISTE Approved and graded STTP on “Advancement in Cryptography, Blockchain and Cryptocurrency” dated from 5th December To 16th December 2022.

Two Week or One Week Workshops

1. **Attended training program on “Cloud Computing” organized by** Finolex Academy of Management and Technology from 01/08/2022 to 05/08/2022.

Technical Seminars/ Workshop/ Lecture/ Invited Talks As a Resource Person - Write here total number talks you have been invited for

1. Organized “**Project Exhibition**” on 8th September, 2022 at R. B. Shirke High school in Sanmitra Nagar, Ratnagiri.
2. Organized “**Cyber-Awareness**” Seminar on 7th April , 2023 at Paranjape Agro Product Private limited, MIDC, Ratnagiri.

Professional Membership

1. Indian Society of Technical Education (I.S.T.E)

College Exam Duties

1. Worked as Additional Senior Supervisor for Conducting Morning Exam of SH 2024.
2. Carried out exam related duties such as Examiner conducting theory, practical and oral exam as appointed by Board of Examination, Mumbai University.
3. Worked as member of Scrutiny Committee for Winter 2022, Summer 2023 and Winter 2023 Examination.

Other Experience

College Level Committees

1. Working as a EXTC department coordinator for **NBA Criteria 1**.
2. Working as a EXTC department **Feedback** Coordinator
3. Working as a EXTC department **DLLE** Coordinator
4. Working as a EXTC department **ASENT** Coordinator
5. Working as a Institute level Cultural Committee Member
6. Working as a EXTC department **E-Newsletter** Coordinator from AY 2022 To 2023

7. Worked as a **Judge for Project Competition** 2022-23 organized by CSE-AIML Department, FAMT Ratnagiri.
8. Arranged "Robo-Race" Event through Brainwaves 2K23.

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Cloud Computing and Security	B.E.- EXTC(SEM-VII)	3 Years
2.	Internet of Things	T.E. CSE_AIML (SEM-V)	3 Years
3.	Skill Lab:C++ and Java programming	S.E. EXTC (SEM-III)	3 Years
4.	Database Management System	T.E.EXTC (SEM- VI)	2 Years
5.	Game Theory Using AI and ML(Honors and Minors Degree Course)	T.E. EXTC/IT/MECH/ (SEM- VI)	1 Year
6.	Skill Lab: Linux & networking & Server Configuration	T.E. EXTC (SEM- VI)	2 Years
7.	Skill based Lab: Cloud Computing	T.E. CSE_AIML (SEM-VI)	2 Years
8.	Data Structutre Using C	F. E. CSE(SEM - II)	1 Year
9.	Software Engineering	T.E. CE (SEM -V)	3 Years
10.	Windows Programming	T.E. CE (SEM -V)	4 Years
11.	Advanced Java Programming	T.E. CE (SEM- VI)	4 Years
12.	Management	T.E. CE (SEM- VI)	4 Years
13.	DataWarehousing	T.E. BSC-IT (SEM- VI)	1 Year

Summary

International Journals	Unpaid	1
	Paid	1
Conferences	International	1
	National	1
Number of FDP's attended		10
Number of STTP's attended		1
Number of 1 Week Workshops attended		1
Resource Person Contribution	Technical Talks / Seminars / Lectures, etc	1
	Outreach Programs / Social Programs / Extensions, etc	1