

## Curriculum Vitae



**Name:** Rupali Mangrule

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**Date of Birth:** 28-07-1980

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### Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Computer Science and Engineering		Dr. Babasaheb Ambedkar Marathwada University, Chh.Sambha jinagar	April 2025		
M.E./ M. Tech.	M. E. CSE	Government College of Engineering , Chh.Sambh ajinagar	Dr. Babasaheb Ambedkar Marathwada University, Chh.Sambha jinagar	June 2008	72.85 %	First Class with Distinctio n

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### ME(CSE)

<b>Title</b>	<b>Fingerprint recognition</b>
<b>College</b>	Government College of Engineering, Chh.Sambhajinagar

### Ph. D (CSE)

<b>Title</b>	<b>Early Detection and Classification of Plant Disease with Multiclass Support Vector Machine</b>
<b>Guide</b>	<b>Dr. Rahat Khan</b>
<b>University</b>	Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar
<b>Completed on</b>	<b>April 2025</b>

Key Research Areas: Data Science, Machine Learning, Image Processing

### Experience

Sr. No.	Organization	Post	From-To	No. of Years
1	MIT,CSN	Assistant professor	06August 2007	Till Date
2	Government college of Engg.Aurangabad	Visiting Lecturer	June 2004	July 2007
3	Government Polytechnic Aurangabad	Visiting Lecturer	June 2004	July 2007
4	Deogiri College, Aurangabad	Lecturer	Jan 2004	May 2004
5	S.B.E.S.College,Aurangabad	Lecturer	July 2003	December 2003
6	Shikshan Prasarak Mandal Akhuj(Jr.College)	Lecturer	Oct 2001	June 2002

#### List of Courses Taught/Teaching at UG level:

- Python Programming
- Data Science

- Machine Learning
- Object Oriented Programming Concepts
- Software Engineering and Agile
- C/C++ programming
- Internet of Things
- R programming

**List of Courses Taught/Teaching at PG level:**

- Object Oriented Analysis and Design
- Data Science
- Advanced Computer Architecture

**Additional Assignments/Duties:**

- Handled different portfolio at department level as Timetable coordinator, Term work coordinator, Practical exam coordinator, class coordinator.
- Coordinated industrial visits for Final year students (B. Tech)
- Worked as Under study for Dr. Babasaheb Ambedkar Marathwada University, Examinations.
- Syllabus designed for Professional Elective-II (Internet of Things) of Final Year B.Tech and Machine Learning for TY CSD, Maharashtra Institute of Technology affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- Guided projects of UG and PG students.
- Worked as member in FY B. Tech and DSY admission committee.
- Organized different co-curricular and extra cocurricular activities.

**Membership of Professional Bodies:**

- Life member of CSI

**Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference Attended:**

Attended near about 50 workshops, STTPs and FDP of different subjects like:

- ATAL FDP on “Leveraging Cutting Edge Technologies for Sustainable Agriculture Practices” at CSMSS CHH. SHAHU COLLEGE OF ENGINEERING from 02/12/2024 to 07/12/2024
- One-week STTP on “Recent trends in Information and Cloud Security” organised by G. H. Raisoni college of Engineering, Nagpur from 9<sup>th</sup> to 14<sup>th</sup> January 2023.
- 5-day Face-to-Face UHV-II FDP organized by All India Council for Technical Education (AICTE) at Maharashtra Institute of Technology, Aurangabad from 6<sup>th</sup> February to 10<sup>th</sup> February 2023
- participated 5 Day’s Online International Level Faculty Development Program on “Data Science using Machine Learning” organized by Pravara Rural Engineering College from 2<sup>nd</sup> January 2023 to 6<sup>th</sup> January 2023.
- Successfully completed one week Induction/Refresher Programme on “data Science and its Application from 30/12/2021 to 5/1/2022 organised by Department of Computer Science and Engineering, Abha Gaikwad-Patil College of Engineering Nagpur.
- 5 days online FDP on “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 1 February 2021 to 5 February 2021.
- AICTE Recognized Faculty Development Programme on Data Science using Python from 09/08/2021 to 13/08/2021 (one Week) Conducted by Computer Science and Engineering Department NITTTR, Chandigarh.
- participated in Faculty Enablement Program on Software Engineering and Agile Software

Development conducted by Infosys Limited at Maharashtra Institute of Technology, Aurangabad during 21st to 25th Dec 2015 and has been awarded with A Grade.

### **ORGANISING WORKSHOP/CONFERENCES**

- Organised one day workshop on Advance Java with hands on practice on 24th April 2023 for SY B. Tech students.
- Coordinated one-week hands on workshop on JavaScript and ReactJS from 18/4/2022 to 24/4/2022 for SY and TY B. Tech students
- Organised 3 days expert lectures on python programming for SY B. Tech students.
- Organizing secretary of 1 week FDP on Outcome Based Education and NBA Process, in MIT, Aurangabad

### **AWARDS**

- Recognized as BRONZE partner faculty under Inspire-The Campus Connect Faculty Partnership Model, Infosys Limited, 2018-06-30

### **ACHIVEMENTS**

- Received a letter of appreciation from IQAC, MIT for the excellent teaching delivery for the course of Principles of Programming Languages of class FY E,F in the AY 2024-25 Part I.
- Received the letter of appreciation from IQAC, MIT for the excellent teaching delivery for the course of Programming for Problem Solving of class FY N in the AY 2023-24 Part II.
- Received the certificate of appreciation for conducting a session on “Array, Strings & Structures” in one week Faculty Development Program on “C Programming, 27<sup>th</sup> June 2024-3<sup>rd</sup> July 2024 organized by Department of Computer Science & Engineering, MIT Chh. Sambhajinagar

### **List of Research Publications**

1. Title	Feature Extraction for Fingerprint Recognition
Conference Name	National Conference on Computing, Communication & Electronica NCCCE-08
2. Title	Blind SQL Injection attacks & preventive measures
Conference Name	National Conference on Recent Trends in Computer Application (NCRTCA-2010)
3. Title	Study of Intrusion Detection System using Hybrid Approach
Conference Name	Presented in International Conference on Current trends and Challenges in Management, Engineering, Computer Applications and Technology held on 23-24 March 2013 at Deogiri Institute of Engineering and Management Studies, Aurangabad. Published in International Journal of Multidisciplinary Research, Vol.1, Issue 12, March 2013.
4. Title	An Incremental Spam Filter

Journal name	International Journal of Innovations in Engineering and Technology (IJIET), Vol. 3 Issue 1 October 2013
5. Title	A review on various classification Algorithms for An Incremental Spam Filter
Journal name	International Journal of Application or Innovations in Engineering and Management (IJAIEEM), Volume 2, Issue 11, November 2013
6. Title	Intrusion Detection System using Hybrid Approach
Journal name	International Journal of Innovative Technology and Adaptive Management (IJITAM) Volume-1, Issue-10, July, 2014
7. Title	Detection and Prevention of JavaScript Vulnerabilities in social media
Journal name	IJARCSSE Vol.5, Issue 5, May 2015.
8. Title	Discovery of Frequent itemset using Higen Miner with Multiple Taxonomies
Journal name	International Journal of Current Trends in Engineering & Research (IJCTER) e-ISSN 2455–1392 Volume 2 Issue 6, June 2016 pp. 373 – 383
9. Title	Performance Analysis of Gene Expression Data Using Mann-Whitney U Test
International Conference (Springer)	Springer International Conference on Emerging trends and Advances in Electrical and Renewable Energy (ETAEERE-2016)
10. Title	Certain Analytical Techniques for Maximizing the Similarity of Gene
International Conference	4 <sup>th</sup> International Conference on Engineering Technology and Science, Tamil Nadu ICETS-2017
11. Title	Dynamic Closest Keyword Cover Search in Spatial Data
Journal name	International Journal of Innovations & Advancement in Computer Science IJIACS ISSN 2347 – 8616 Volume 6, Issue 11 November 2017
12. Title	Overview of Multi Class Support Vector Machine & its Application in Agriculture
Journal name	IPASJ International Journal of Computer Science (IIJCS) Volume 5, Issue 12, December 2017
13. Title	Extension of SVM for Multi-Class Classification
Journal name	International Journal of Science, Engineering and Management (IJSEM) Vol 3, Issue 2, February 2018
14. Title	Improvised Privacy-Preserving Multi-keyword Top-k Similarity Search Over Encrypted Data
Journal name	International Journal of Scientific Development and Research (IJSDR) April 2018 IJSDR   Volume 3, Issue 4

15. Title	Early Detection and Classification of Sugarcane Plant Disease with Multi Class Support Vector Machine
Journal name (SCOPUS Indexed)	Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 15-Special Issue, 2018
16. Title	Classification of Age Group Using Deep Learning Technique
Journal name	Journal of Emerging Technologies and Innovative Research (JETIR) December 2021, Volume 8, Issue 12
17. Title	Investigation of automatic data extraction method from complex web pages
Journal name	International Journal of Science and research vol 10 Issue 11 Nov 2021
18. Title	Automated sugarcane crop disease forecasting with colour and texture features
Journal name (Taylor & Francis Group) Scopus Indexed	Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023
19. Title	A Comprehensive Survey of Machine Learning and Deep Learning Approaches for Plant Disease Detection, with Emphasis on Sugarcane.
Conference Name	4 <sup>th</sup> International Conference on Computational Intelligence ICCI 2023
20. Title	A Deep Dive into Modern Approaches for Plant Disease Detection, with a Focus on Sugarcane
Springer Book Series	Published in Springer Book Series "Algorithms for Intelligent Systems"
21. Title	Sugarcane Plant Disease Detection and Classification using Machine Learning, Deep Learning and Transfer Learning
Journal name (SCOPUS Indexed)	Journal of Electrical Systems (JES) December 2024
22. Title	Automatic Sugarcane Leaf Disease Detection and Classification using Image Processing and Machine Learning
Conference Name	1 <sup>st</sup> National Conference on Emerging Trends in Science, Technology, Engineering & Management (NCET-STEM 25)

#### NPTEL Certification

Duration (in Weeks)	Course Name
Aug 2018 - Sep 2018	Introduction to R Software ( <b>Elite +Gold 99% in 1% Topper</b> )
Jan 2019 - Apr 2019	Programming in Java ( <b>Elite +Gold 95%</b> )
Jul 2019 - Sep 2019	Introduction to Machine Learning ( <b>Elite + Silver</b> )
Sep 2020 - Dec 2020	Software Engineering ( <b>Elite +Silver</b> )
Jan 2021 - Feb 2021	Python for Data Science ( <b>Elite</b> )

Date: 25<sup>th</sup> April 2025

Place: Chh.Sambhajinagar

Dr. Rupali A. Mangrulkar

