

Curriculum Vitae

1. Name: Dr. Rachana Sandip Jaiswal

2. Designation & Department: Professor, CSE

3. Correspondence address: House No.15, Datta Colony, Kapila Nagar,
Gorakshan Road, Akola



4. Email(s) and contact number(s): rashmiramadhanijun@gmail.com
9011023942

5. Date of Birth: 26/06/1982

6. Academic Qualification (Undergraduate Onwards)

Sr. No	Degree	Year	Subject	University/Institution	% of marks /CGPA
1.	B.E.	2004	CSE	Amravati	74%
2.	M.E.	2011	CSE	Amravati	73%
3.	PhD	2020	CSE	AMRAVATI	

7. Ph.D thesis, Year of Award: Development of Efficient Image Segmentation Technique, 2020

M.E Dissertation title, Year of Award: Avoiding Undesired Sidetracking in Virtual Classroom, System, 2011

8. Work experience (in chronological order).

S.No.	Designation	Name of the Institute	From	To
1.	Assistant Professor	College of Engineering and Technology, Akola	01/07/2005	01/07/2018
2.	Associate Professor	College of Engineering and Technology, Akola	01/07/2019	01/02/2025
3.	Professor	College of Engineering and Technology, Akola	01/02/2025	Till date

9. Professional Recognition/ Award/ Achievement/ Certificate received.

S.No	Name of Award	Awarding Agency	Year
1.	International Certification on "Introduction to Cyber Security"	Cisco	Jan,2021
2.	International Certification of "SQL & Relational Databases"	IBM	Feb,2021

10. Publications (*List of papers published in Journals, in year wise descending order*).

S.No	Author(s)	Title	Name of Journal /Conference	ISSN/ISBN	Volume	Page	Year
1.	Dr.R.S.Jaiswal	"Automatic Pillbox System"	IJSET	ISSN (online):23 48-4098	volume 13, Issue 3		2025

2.	Dr.R.S.Jaiswal	“Plant Care: Plant Disease Detection and Diagnosis”	IJRASET		volume 13, Issue 5,		May 2025
3.	Dr.R.S.Jaiswal	“Soft Computing Strategies for Anticipating Global Stock Index Price Trends and Future Opportunities”	International Conference on Recent Advancements in Artificial Intelligence (ICRAAI-2024)				during Feb.9-10, 2024 at Poornima University, Jaipur.
4.	Dr.R.S.Jaiswal	“Human Visuals for Vibrant Keytunes-HVVK an Emotion Detection Music Recommendation System using Spotify API”	International Research Journal of Engineering and Technology (IRJET).	e-ISSN: 2395-0056	Vol.11, Issue:04,	pp.2446-2452	Apr.2024
5.	Dr.R.S.Jaiswal	“Enhancing Global Stock Index Price Movement Forecasting: A Soft Computing Approach with Future Prospects”	anvesak UGC Care Group-I, Journal		Vol. 53, No.1	pp. 33-49.	January-June 2023
6.	Dr.R.S.Jaiswal	“Price Comparison Website”,	International Journal of Scientific Research in Engineering and Management (IJSREM),	ISSN: 2582-3930	Volume-6, Issue 5		2022
7.	Dr.R.S.Jaiswal	“Fetal Contour Extraction Using Level Set Image Segmentation Approach”	IJARSCT,	ISSN: 2581-9429	Vol. 2, Issue 2	200-209	2021
8.	Dr.R.S.Jaiswal	“Role of Hybrid Level Set in Fetal	SIPIJ	ISSN: 0976 - 710X,	Vol.12, No.1,	39	2021

		Contour Extraction”,					
9.	Dr.R.S.Jaiswal	“Hybrid Image Segmentation Technique”	IJARSCT, ISSN: 2581-9429		Vol. 12, Issue 1	146-152	2020.
10.	Dr.R.S.Jaiswal	“Biometric Foetal Contour Extraction using Hybrid Leve Set”	David C. Wyld et al. (Eds): SIGI, CSTY, AI-2020			pp. 11-20, 2020	CS & IT - CSCP 2020
11.	Dr.R.S.Jaiswal	“Leveraging Deep Learning and CNN Algorithms for Accurate Skin Disease”	IJRAR		Volume 6 Issue 2.	page 410-417	May 2019
12.	Dr.R.S.Jaiswal	“Streamlining Feature Selection for an Effective Educational Content Management”	JETIR		Volume 6 Issue 1	page 82-88	January 2019
13.	Dr.R.S.Jaiswal	“Role of Active Contour Models in Image Segmentation”	IJMTE Journal, ISSN: 2249-7455 ,		Volume IX, Issue I,		January-2019.

11. Detail of patents/Copy right:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1.	“On-site automated hazardous medical waste detection by smart sensors and waste categorization technique using a Machine learning algorithm”.	Dr.S.L.Satarkar Dr.S.S.Agrawal Dr.R.S.Jaiswal	2021210156 32	09/04/2021		Published
2.	An IOT Based System to monitor the wards travelling through school buses	Dr.S.L.Satarkar Dr.S.S.Agrawal Dr.R.S.Jaiswal	2022410048 28	04/02/2022		Published
3.	Design of collaborative	Dr.S.L.Satarkar Dr.S.S.Agrawal		L/121423/2 023 dated		Registered

	query processing for information systems	Dr.R.S.Jaiswal		13/4/2023		
4.	WIRELESS TRANSMITTER Design patent	Dr. M.V Sarode Dr. R.S. Jaiswal	401727-001	08/12/2023		Registered
5.	Cloud Computing Devices for Data Analysis and Management	Dr.S.S.Agrawal Dr.R.S.Jaiswal	464243-001	01/07/2025		

12. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	"Development of Efficient Image Segmentation Technique	Rachana Jaiswal	Lambert Publications ISBN: 978-93-91265-05-2	28/6/2021
2.	Artificial Intelligence	Rachana Jaiswal	Shivkrupa Publication	
3.	Undesired Sidetracking in Virtual Classroom Systems	Rachana Jaiswal	Lambert Publications ISBN: 978-3-659-24784-2	2012-10-06

13: Field of Expertise / Specialization: Image segmentation