DR. SUPRIYA KAMOJI Email: supriyas@frcrce.ac.in

LinkedIn: linkedin.com/in/supriya-kamoji-97a00159

OBJECTIVE: To impart the best quality technical skills & knowledge to students. This would build confidence in the students & enable them to take up challenging careers & assignments.

Presenting 20+ Years' varied exposure in Education domain.... Track Record of Success in....

Profile Summary

Dedicated Engineering Professor with strong record in both teaching and administration. Proficient in explaining complex Engineering theories in clear and accessible manner. Skilled in development and implementation of educational technology tools and applications in the classroom.

- Expertise in designing course content in domain of computer Engineering as per Bloom's Taxonomy.
- Educational Technology Expert in domain of Machine Learning, Deep Learning and Cloud Computing.
- Diverse teaching modalities.
- Resource person for the technical talks for the students and faculty members.
- Adept in organizing various International and national level technical and non-technical events for faculty and students.
- Skilled academic mentor
- Published 30+ technical research papers in reputed International Journals and Conferences.

	1. Ex	perience			
INSTITUTE (1):	FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING(F.R.C.R.C.E), BANDRA(W)				
DESIGNATION:	ASSOCIATE PROFESSOR				
DURATION:	ASSOCIATE PROFESSOR (from 1 st Ju				
RESPONSIBILITY:	Assistant Professor (from JULY 2005 – May 2025) Teaching, mentoring, Course Coordinator, Member of syllabus design committee for Mumbai university, Placement Coordinator, Major Project Coordinator, NIRF Coordinator				
INSTITUTE (2):	B.V.B. COLLEGE OF ENGINEERING AI	ND TECHNOLOGY (COLLEGE IN	HUBLI, KARNATAI	KA, INDIA
DESIGNATION:	LECTURER				
DURATION:	2002 – 2005				
RESPONSIBILITY:	Teaching, Mentoring, Course Coordinator				
	2. E	ducation			
DEGREE	COLLEGE	UNIVERSITY	YEAR	PERCENTAGE	Class
Ph.D. (COMPUTER ENGINEERING)	SIR PADAMPAT SINGHANIA UNIVERSITY	UDAIPUR	2023	DISTINCTION	
M.E (COMPUTERS)	THADOMAL SHAHANI COLLEGE OF ENGG	MUMBAI	2011	73.1%	DISTINCTION
B.E (E & C)	SDMCET, DHARWAR	KARNATAKA	2000	71%	DISTINCTION

3. Key Responsibilities handled

- NIRF Coordinator 2022 till date: Filling the prerequisite form and collecting compiling data required for NIRF. Making the analysis of previous year's data to frame action plans for improvement in the scores in the next year.
- Times ranking 2022 till date: Filling the prerequisite form and collecting compiling data required for ranking. Making the analysis of previous year's data to frame action plans for improvement in the scores in the next year.
- Coordinator of Student performance Criteria 4 NBA: Responsible for compiling students results, achievements, internships, placement and publications.
- E-content creation: launched a YouTube channel called techCRCE. This channel will be a great resource for students, alumni, and anyone interested in the latest tech news and tutorials, from the department. Responsible for creating multiple playlist in subject of Social Media Analytics, Information retrieval, Cloud Computing.
- **BE Project Coordinator 2022 till date:** Arranging orientation sessions for project topic selection, scheduling mid-term presentations of BE projects and calculation outcome of project.

Coordinator of Fr. Conceicao Rodrigues Memorial Debate (CRMD) 2019 and 2018 – A national level event. Fr. Conceicao Rodrigues Memorial Debate is a National level event, fondly called as CRMD usually conducted in the month of September of every year. CRMD gives students creative room to express their views and serves as a platform where they can articulate their thoughts, showcase their debating skills and fulfill their appetite for more information.

• Coordinator for the college cultural festival 2017-18

The most awaited festival of the college which has lots of fun, music, drama, and dance called Euphoria. It is a 3-day long festival gives an opportunity to the students to showcase their talents in various fields likeliterature, personality, gaming, performing arts etc.

• Department placement in-charge 2014-2016 and 2019 till date

Mentoring the students for the placement drives, framed the placement policies, collected the technical sample questions after every company visit and uploaded on the portal for the reference of junior students. Organized talks from senior students for preparation of interviews and higher studies. Compiled the final placement statistics and graphical charts.

• LeadingIndia.ai: Worked as team lead for leading India AI initiative by Bennett University. Organized two workshop under this initiative to train faculty members of Maharashtra .

Organized various ISTE approved Short Term Training Programmes (STTP), Student Development Programme(SDP) and Faculty Development Programmes(FDP)

Organized various training programmes by Identifying the thrust areas in the field of computer Engg field, which is a combination of Expert's Speeches & Practical Demonstrations by eminent personalities from Industry and Academia. Such training programmes are aimed to upgrade the knowledge of teachers who are teaching various disciplines of science and engineering subjects in colleges or Universities, to the students for meeting the current requirements of IT industry and for research scholars to conduct their research work.

• Department In-charge of Identifying the weak and strong students

In regular interval, identify weak students using tools such as test, quiz, Module test and assignment. Designed additional resource materials to improve their performance. Providing guidance to students for developing their career as well as making them familiar with different career opportunities.

4. Curriculum Development Experience

 Subject: Cloud Computing skill Development lab- VI Semester Computer Engg, Responsibility: Designed the course contents for the skill development of students in the domain of cloud computing. Course content included framing the list of experiments, creating the instructional manual, slides/PPT and video contents for each experiment.

- Subject: Competitive Coding and Advanced Coding– III and V semester Computer Engg- 2017 & 2018 Responsibility: Framed the syllabus and designed challenging problem statements to enhance the coding skills of the students which help them in placement drives.
- 3. Subject: Computer Organization and Architecture- IV Semester Computer Engg-2016-17 Responsibility: Designed the syllabus and practical list. Conducted the Orientation programme for the faculty members of Mumbai University to transfer the practical knowledge of Computer Organization and Architecture.
- 4. Subject: Preplacement Preparation 2014 to 2016 and 2019 to 2022.

Deservice Devecution Training Dec

Responsibility: Collaborated with subject matter experts to update the students on the procedures, processes, and company specific training (Technical and Aptitude). Designed the content and timeline framework for technical and Aptitude training for placement drives. Organized the alumni preplacement talks and mock interviews, collected feedback on student's preparedness to improve the curriculum contentand placement statistics.

5. Resource Person in Training Prog	ram		
	Academic	Participant /	Duration
Program Details	Year	Resource	(2weeks/
		Person	1week/days)
Faculty development Programme on Virtual Lab on	2016-17	Resource	2 days
computer Organization and architecture		Person	
Faculty development Programme on "Machine Learning" in	2019-20	Resource	1 week
Shah and Anchor Kutchhi college of Engg, organized on 2 nd and 16 th march, 2019.		Person	
Faculty development Programme on advanced Cloud	2021-22	Resource	2days
		Person	
Faculty development Programme on Guidelines for Successful Research Exploration	2023-24.	Resource Person	2days
Guest Lecture on Competitive coding	2022-23	Resource	1day
		Person	
Guest Lecture on Applications of Theoretical Computer Science	2024-25	Resource Person	1day
Guest Lecture on Applications of Discrete Structures & Graph Theory	2024-25	Resource Person	1day
Faculty development Programme on Agentic AI	2024-25	Resource	1 day
Department Advisory member of Xavier Institute of Technology	2024-25	Resource	1 day
	nsultancy work		
	isultancy worr		
o Funding Agency			Number of Projects
1 Title: Smart Children safety in school bus transport using RFID and Android			4
Funding Institute: Mumbai University			
	ngs		
	Program Details Faculty development Programme on Virtual Lab on computer Organization and architecture Faculty development Programme on "Machine Learning" in Shah and Anchor Kutchhi college of Engg, organized on 2 nd and 16 th march, 2019. Faculty development Programme on advanced Cloud Computing Faculty development Programme on Guidelines for Successful Research Exploration Guest Lecture on Competitive coding Guest Lecture on Applications of Theoretical Computer Science Guest Lecture on Applications of Discrete Structures & Graph Theory Faculty development Programme on Agentic AI Department Advisory member of Xavier Institute of Technology 6. Funded R & D Projects and Co o Title: Smart Children safety in school bus trans RFID and Android Role: investigator Funding Institute: Mumbai University Amount Received: 2000/- Year: 2016-17 Mumbai University (Minor Research Grant Projects)	Program Details Academic Year Faculty development Programme on Virtual Lab on computer Organization and architecture 2016-17 Faculty development Programme on "Machine Learning" in Shah and Anchor Kutchhi college of Engg, organized on 2 nd and 16 th march, 2019. 2019-20 Faculty development Programme on advanced Cloud Computing 2021-22 Faculty development Programme on Guidelines for Successful Research Exploration 2022-23 Guest Lecture on Competitive coding 2024-25 Guest Lecture on Applications of Theoretical Computer Science 2024-25 Guest Lecture on Applications of Discrete Structures & Caulty development Programme on Agentic AI 2024-25 Department Advisory member of Xavier Institute of Technology 2024-25 6. Funded R & D Projects and Consultancy worl RFID and Android Role: investigator Funding Agency Title: Smart Children safety in school bus transport using RFID and Android Role: investigator Funding Institute: Mumbai University Amount Received: 20000/- Year: 2016-17 Mumbai University (Minor Research Grant Projects) Title: Smart Green House using Internet of Things Role: Co- Principal investigator	Program Details Academic Year Participant / Resource Person Faculty development Programme on Virtual Lab on computer Organization and architecture 2016-17 Resource Person Faculty development Programme on "Machine Learning" in Shah and Anchor Kutchhi college of Engg, organized on 2 nd and 16 th march, 2019. 2019-20 Resource Person Faculty development Programme on advanced Cloud Computing 2021-22 Resource Person Faculty development Programme on Guidelines for Successful Research Exploration 2022-23 Resource Person Guest Lecture on Competitive coding 2022-25 Resource Person Guest Lecture on Applications of Discrete Structures & Science 2024-25 Resource Person Guest Lecture on Applications of Discrete Structures & Craph Theory 2024-25 Resource Person Faculty development Programme on Agentic AI 2024-25 Resource Person Department Advisory member of Xavier Institute of Technology 2024-25 Resource Person 6. Funded R & D Projects and Consultancy work 0 Funding Agency 1 Title: Smart Children safety in school bus transport using RFID and Android Role: investigator Funding Agency 1 Funding Institute: Mumbai University Amount Received: 20000/- Year: 2016-17 </td

2	Amount Received: 25000/- Year: 2016-17 Title: Smart Wearable for seni Role: Co- investigator Funding Institute: Mumbai Univ Amount Received: 30000/- Year: 2017-18 Title: Smart Cradle for reduci Role: Co- Principal investigator Funding Institute: Mumbai Univ Amount Received: 25000/- Year: 2019-20 eFSI (IIT Project) IIT (Bombay The project aimed to develop an world problems. The task of dev to monitor plant growth regularly sensors to artificially control humidity, wind etc. This proj association with IIT Bombay .	ersity ng the Risk of SIDS ersity automated agriculture y and interface the satisfies the external param	S using IoT are testbed to c CNN IP-ba ame with the meters like	o address rea ased AI mod e installed Ic temperatur	el oT re,
	7. Enha	ncement of Qualific	ation		
Sr. No	Title of the Degree	Academic	Dura	ation	University/
		Year			Institute
1	NPTEL Course on Cloud Computing	2017-2018	1 w	eek	IIT Khargapur
2	NPTEL Course on Soft Skills	2017-2018	1 week		IIT Khargapur
3	NPTEL Course On data mining	2018-2019	1 week		IIT Khargapur
4	NPTEL Course Compiler construction	2019-2020	1 week		IIT Khargapur
5	Certification Course Convolutional Neural Network (CNN)	2019-2020	1 week		Coursera
6	Certification Course Neural Network	2019-2020	1 week		Coursera
7	Certification Course Structuring ML Projects	2019-2020	1 week		Coursera
8	Certification Course Programming for everybody	2019-2020	1 week		Coursera
9	Certification Course Sequence Models	2020-2021	1 week		Coursera
10	Sales Force Fundamentals	2022-2023	2days		FDP
11	Generative AI : Concerns and solutions	2023-2024	1 week		ATAL
	8. R	esearch Publication	IS		
1	Number of Research Publications in International			14	
		Journals			
2	Number of Research Publications in International 16 Conferences 16				
Sr. No		Publication D	etails		

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1	Analysis of flood severity using intelligent deep networks and sentinel image for the Kerala region, International Journal of Hydrology Science and Technology , 2042-7816, 2025, 19(1), p.1-23- SCI
2	Effective Flood prediction model based on Twitter Text and Image analysis using BMLP and SDAE-HHNN, Engineering Applications of Artificial Intelligence, 0952-1976,2023, 123, p.106365- SC I
3	A Framework for Flood Extent Mapping Using CNN Transfer Learning, International Journal of Intelligent Systems and Applications in Engineering , 2147-6799,2022, 10 P. 3- SCOPUS
4	Federated Learning for Privacy-Preserving Medical Image Analysis: A Chest X-ray Case Study, Journal of Information Systems Engineering and Management, 2468-4376,2025, 10,p-158-172- SCOPUS
5	Prediction of tourism flow in India Using LSTM Model, Journal of Emerging Technologies and Innovative Research, 2349-5162,2019,6p- 190-195- UGC Care
6	Performance Comparison of Various Pixel Window Sizes for Colorization of Grayscale Images using LBG, KPE, KFCG and KEVR inKekre's LUV Color Space, International Journal of Engineering and Advanced Technology, 2249-8958,2011,1,p-120-125- SCOPUS
7	Performance Analysis of Various Window Sizes for Colorization of Grayscale Images using LBG and KFCG Vector Quantization Codebooks in RGB and Kekre's LUV Color Spaces ,International Journal of Soft Computing and Engineering (IJSCE)ISSN: 2231-2307, Volume-1 Issue-4, September 2011
8	Comparative study of Techniques used for Detection of SelfishNodes in Mobile Adhoc Networks International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-1 Issue- 4, September 2011
9	Study of Cache Management Algorithms , International Journal of Computer Science and Technology (IJCST).October- December. 2011 ISSN : 0976-8491 (Online) ISSN : 2229-4333(Print)
10	Evaluation of Students Performance Based on Formative Assessment, International journal of Computer applications DOI: 10.5120/11367-6623
11	Key Frame Extraction for Video Summarization Using Motion Activity Descriptors ,International Journal of Engineering Research & Technology, eISSN:2319-1163
12	Dynamic Vehicle Traffic Management System IJRET-International Journal of Research in Engineering and Technology ,eISSN: 2319-1163, pISSN: 2321-7308
13	Controversial analysis: Sentimental Analysis of Twitter data, Controversial analysis: Sentimental Analysis of Twitter data International Journal of Advanced Research in Computer Science and Software Engineering IJARCSSE, ISSN: 2277 128X
14	Prediction of Cardiovascular Disease- A review Publication,IJRASET ,ISSN: 2321-9653, DOI:10.22214
15	Analysis of Growth and Planning of Urbanization and correlateschanges in Natural Resources
	Springer and Scopus Indexed International Conference on Innovative Data Communication Technologies and Application(ICIDCA) DOI: https://doi.org/10.1007/978-3-030-38040-3_23
16	Image Processing based Vehicle Identification and Speed Measurement, SCOPUS Indexed IEEE International Conference on Inventive Computation Technologies (ICICT-2020), DOI: 10.1109/ICICT48043.2020.9112552
17	Video Anamoly Detection using 3 D Convolutional Network, SCOPUS Indexed IEEE International Conference on Inventive Computation Technologies (ICICT-2020) ,DOI: 10.1109/ICICT48043.2020.9112552
18	Prediction of Parkinson's Disease using Machine Learning and Deep Transfer Learning from different Feature Sets, 6th International Conference on Communication and Electronics Systems (ICCES) DOI: 10.1109/ICCES51350.2021.9488944

19	Smart Street lamps A solution to Urban Pollution, 2nd International Conference on Inventive Research in ComputingApplications (ICIRCA), DOI:10.1109/ICIRCA48905.2020.9182980
20	Virtual assistance using question generation/ Answering 4th IEEE Sponsored International Conference on Communication, Information and Computing Technology (ICCICT 2021) DOI: 10.1109/ICCICT50803.2021.951013
21	A Detection, Tracking and Alerting System for Covid-19 using Geo-Fencing and Machine Learning IEEE Sponsored 5th International Conference on Intelligent Computing and Control Systems (ICICCS-21) DOI: 10.1109/ICICCS51141.2021.9432254
22	Analysis of Flood using GIS parameters in context of Sustainable Management Proceedings of the International Conference on Augmented Intelligence and Sustainable Systems (ICAISS-2022) DVD Part Number: CFP22CB2-DVD; ISBN: 978-1-6654-8961-4
23	Fusion of multimodal textual and visual descriptors for analyzing disaster response. 5th International Conference on Smart Systems and Inventive Technology (ICSSIT). IEEE, 2023.
24	Data analytics for disaster management response using sentiments. International Conference on Sustainable Computing and Smart Systems (ICSCSS). IEEE, 2023.
25	Artificial intelligence enhanced content management systems: Integration, considerations, and useful examples. 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN). IEEE, 2023.
26	First Aid and Emergency Assistance Robot for Individuals at Home using IoT and Deep Learning. 7th International Conference on Computing Methodologies and Communication (ICCMC). IEEE, 2023.
27	A Privacy Preserving Sentiment Analysis using Federated Learning. Second International Conference on Inventive Computing and Informatics (ICICI). IEEE, 2024.
28	Mental Health Prediction using Machine Learning Models and Large Language Model. Second International Conference on Inventive Computing and Informatics (ICICI). IEEE, 2024.
29	Geospatial Analysis of solar energy potentials for rooftops, International Conference on futuristic aspects in science and Engineering 06-07 February 2025, Jaipur
30	CareerCreaft: AI-Powered Resume Enhancer, 8th International Conference on Computing Methodologies and Communication (ICCMC 2025) organized by Surya Engineering College, Erode, Tamil Nadu, India on 23-25, July 2025.

Patents Published:

1. Title: FloodKnow : A AI based hybrid system for flood severity prediction based on based on leveraging both textual and visual features using deep neural Network

Application Number: 202221070479

- 2. Title: MULTIMODAL DISASTER RISK MANAGEMENT SYSTEM Application Number: 202321027907
- 3. Title: EDU-VQA A MULTIMODAL MULTI-KNOWLEDGE OPEN-DOMAIN VISUAL QUESTION ANSWERING MODEL FOR EDUCATION Application Number: 202321027909
- 4. **Title: "AI BASED AUTONOMOUS WEEDING ROBOT"** Design patent Application Number: 447560001

Signature: Dr. Supriya Kamoji