Name of Teaching Staff	:	Ruhina B. Karani			
Designation	:	Assistant Professor Assistant Professor Assistant Professor			
Department	:	Computer Engineering			
Date of Joining the	:	05/07/2013			
Institution Email ID	:	ruhina.karani@djsce.ac.in			
Office Contact	:	02242335000			
Google Scholar Link	:	https://scholar.google.com/citations?user=7Z4NFIIAAAAJ&hl=en			
Researchgate Link:		https://www.researchgate.net/profile/Ruhina-Karani			
ORCID		https://orcid.org/0000-0002-1939-5247			
Publons Researcher ID	:	https://publons.com/researcher/4620799/ruhina-karani/			
Qualifications with Class / Grade	:	 Ph.D. (Pursuing) M.E. Computer Engineering from University of Mumbai, First class with Distinction B.E., Computer Engineering from University of Mumbai, First Class with Distinction 			
Total Experience in Years	:	12 Years			
Papers Published in Journal:		 Assistant Professor, in computer engineering department of D. J. Sanghvi College of Engineering since 05/07/2013 till date. Assistant Professor (Adhoc), in information technology department of D. J. Sanghvi College of Engineering From 20.7.2011 to 30.6.2013. Lecturer, K.J. Somaiya College of Engineering from 5.1.2009 to 19.7.2010. Lecturer (Temp.), K.J. Somaiya College of Engineering from 24.3.2008 to 26.12.2008. Lecturer, K.E.S's N.N. Patil College of Engineering from 11.9.2007 to 19.3.2008. Published a paper on "3D Visualization of Products for Online Shopping", IJCA, Vol- 132, Issue-5, December-2015. Published a paper on "A survey of Image Registration Techniques using Neural Network", IJCSE, Vol-3, Issue-12, December-2015, ISSN 2347-2693. Published a paper on "Face Aging Simulation", IJCA, Vol-131, Issue-11,December-2015 Published a paper on "Detection of Landing Areas for Unmanned Aerial Vehicles", IJCA, Vol-131, Issue-2, December-2015, ISSN 0975-8887. Published a paper on "Predicting Pool Ball Trajectories" International Journal 			

- 6. Published a paper on "Interpretation of Indian Sign Language through Video Streaming", International Journal
- 7. Published a paper on "3D Visualization of Products for Online Shopping" International Journal
- 8. Published a paper on "Face Aging Simulation" International Journal.
- 9. Published a paper on "A Survey of Image Registration Techniques Using Neural Networks"
- 10. Published a paper on "Detection of Landing Areas for Unmanned Aerial Vehicles"
- 11. Published a paper on "Real Time Eye-Tracking using Web Camera" in International Journal of Engineering Research and Technology, Volume-3, Issue 11, Nov 14
- 12. Published a paper on "Tracking of Entities in Multi-Sport Field", International Conference on Advanced Computing Technologies and Applications (ICACTA- 2015), Procedia Computer Science 45 (2015) Elsevier publication, pg. 300 304
- 13. Published a paper on "2D Satellite Image Registration Using Transform Based and Correlation Based Methods" International Journal of Advanced Computer Science and Applications(IJACSA), 3(5), 2012. http://dx.doi.org/10.14569/IJACSA.2012.030511

Papers Presented in Conferences

- 1. "Image Registration using Discrete Cosine Transform and Normalized Cross Correlation", International Journal of Computer Application, Digital Library URL http://www.ijcaonline.org/proceedings/icwet2012/number2/5323-1014 (ISBN 973-93- 80864-48-5).
- 2. "2D Satellite Image Registration using transform based and correction based methods" International Journal of Advanced Computer Science and Applications (IJACSA), Vol.3 No. 5, PP 64-7, May 2012.
- 3. "A deviant transform based approach for color image registration", IEEE Explore, October 2012.
- 4. "Baby Mentor: Learning Through Images" in IEEE sponsored ICIIECS'17 held on 17/03/17 18/03/17 6 | P a g e
- 5. "Detection of landing areas for unmanned aerial vehicles." 2016 International Conference on Computing Communication Control and automation (ICCUBEA) (2016): 1-5.
- 6. "Tracking of Entities in Multi-Sport Field", International Conference on Advanced Computing Technologies and Applications (ICACTA- 2015), Procedia Computer Science 45 (2015) Elsevier publication, pg. 300 304
- 7. "Deep Learning for Detection and Severity Classification of Dibetic Retinopathy", 1st International Conference on Innovations in Information and Communication Technology (ICIICT 2019), IEEE Conference

Area of Specialization		Record No:46602, ISBN No:978-1-7281-1603-7 at St. Peter's College of Engineering and Technology, Avadi, Tamilnadu, India on 25th April 2019 8. "Optimization of Rainwater Harvesting Sites using GIS" 5th International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2019) at University of Crete, Heraklion, Crete-Greece on 4th May 2019. 9. Published a paper on "Generation of Indian sign language by sentence processing and generative adversarial networks", 3rd International Conference on Intelligent Sustainable Systems, ICISS 2020, 2020, pp. 1250–1255, 9315979 10. Published a paper on "Pothole Detection and Dimension Estimation System using Deep Learning (YOLO) and Image Processing", International Conference Image and Vision Computing New Zealand, 2020, 2020-November, 9290547 11. Published a paper on "English Language Accent Classification and Conversion using Machine Learning" (May 14, 2020). Proceedings of the International Conference on Innovative Computing & Communications (ICICC) 2020, SSRN, Elsevier, Available at SRN: https://ssrn.com/abstract=3600748 Machine Learning, Image Processing and Computer Vision		
PhD Guide ? Give field & University	:	Field: University:	N/A	
PhDs / Projects Guided	:	PhDs: Projects at Masters level:	N/A	
Books Published / IPRs / Patents	:	Books (Editors for conference Proceedings on Springer)	 Published a book chapter on "Applications of Machine Learning in Psychology and the Lifestyle Disease Diabetes Mellitus" in Book "Design of Intelligent Applications Using Machine Learning and Deep Learning Techniques" 1st Edition, Chapman and Hall/CRC, ISBN9781003133681,2021 Published a book chapter on "Combating COVID-19 using object detection techniques for next generation autonomous systems" in Book "Cyber Physical Systems" Ai and COVID-19, Academic Press, Elsevier, https://doi.org/10.1016/B978-0-12-824557-6.00007-8 Registered a copyright for "Classification of Facial Expression using CNN", registration no- L104141/2021 	
Professional Memberships	:		ISTE-LM	

Grants fetched	:	Minor Research Grant (University of Mumbai)	1.	Received minor research grant from University of Mumbai for conducting research on "Optimal Harvesting of Rainwater using Simulation based on GIS and Weather Modeling Systems".
Interaction with Professional Institutions		Other Achievements and Responsibilities:	 3. 4. 5. 8. 	Organized AICTE-ISTE Sponsored One week Short Term Training Program entitled, "Insightsof Machine Learning and Deep Learning "from 2nd July 2018 to 6th July 2018 Organized One week Faculty Development Program entitled, "R and Python Programming" from 16th July 2018 to 20th July 2018 Organized Expert Session on "Imparting Social values and Ethics to Students" Organized an International conference on "Advanced Computing Technologies and Applications (ICACTA-2015)" held in D.J.Sanghvi College of Engineering Organized a national conference on "Emerging Trends in Computers, Communication and Information Technology held in K.J.Somaiya College of Engineering, Mumbai. Organized a State Level Project Competition " DJ ASCII" for Computer and Information Technology Department of D. J. Sanghvi College of Engineering Contributed as a teacher In 2 Week ISTE Workshop on Effective teaching/Learning of computer programming conducted by IIT Bombay under the National Mission on Education through ICT. Conducted expert lecture on "Digital Signal and Image processing" Conducted expert lecture on "Database management systems"
Subjects Taught		 UG Level: Machine Learn Digital Signal Human Machi Natural Langu Database Man Operating Sys Software Arch 	and ne In age agen	Processing ment System s

Projects Guided	: UG Level: 25+					
	PG Level:					
Recommended Students for	Name of the University/Industry					
Higher Education	Student					
	University of Southern California					
	University of California, Irvine					
	University of California, San Diego					
	Purdue University University of Colifornia Sente Borbore					
	University of California, Santa Barbara					
	University of Texas, Dallas University of Illinois, Chicago					
	University of Minnesota, Twin Cities					
	University of North Carolina, Charlotte					
	University of Georgia					
Institute/Department	1. Website Coordinator					
Responsibility handled:	2. Examination Coordinator					
	3. Project Coordinator					
	4. Member of Board of Studies					
	 Member of Department Advisory Board Alumni Coordinator F.E. Mentor Member of NBA Committee Member of NAAC Committee Member of admission Committee 					
	11. Class-Incharge					
	12.					
Pedagogy Development	Designed Machine Learning (Sem VI) syllabus under autonomy					
	2. Designed Deep Learning(Sem VIII) syllabus under autonomy					
	3. Designed Operating Systems (Sem IV) syllabus under autonomy					
	4. Designed Digital Signal Processing and Application (Sem VII) syllabus under					
	autonomy 5. Designed Digital Signal and Image Processing (Sem VII) syllabus for					
	University of Mumbai					
	6. Designed Database Management Systems syllabus for University of Mumbai					
	<i>y</i>					