

## Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Brajesh	Last Name	Kumar	Photograph
Designation		Associate Professor				
Department		Computer Science & Information Technology				
Address	Campus	First Floor, Central Computer Center				
	Residence	5-A, Umang Part 1, Mahanagar Colony, Bareilly-243006				
Mobile No.		8279722771				
Email ID		Personal	sainibrajesh@gmail.com			
		University Domain	bkumar@mjpru.ac.in			
Professional Networking ID, i.e. LinkedIn, Twitter etc.		Twitter: bksaini LinkedIn: brajesh-kumar-40944235 Researchgate: Brajesh-Kumar-14				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution		Year	Details/Thesis Topic/Subjects	
BSc		CCS University, Meerut		1996	Physics/Chemistry/Maths	
MSc		CCS University, Meerut		1998	Physics/Electronics	
MTech		Indian Institute of Technology Roorkee, Roorkee		2001	Computer Science & Tech.	
PhD		Indian Institute of Technology Kanpur, Kanpur		2017	Spectral-spatial classification of hyperspectral imagery	

Career Profile					
Organization / Institution		Designation	Duration	Nature of Duties	
MJP Rohilkhand University, Bareilly		Lecturer	09-10-2002 to 25-08-2008	Academic	
MJP Rohilkhand University, Bareilly		Reader	26-10-2008 to 25-10-2011	Academic/Administrative	
MJP Rohilkhand University, Bareilly		Associate Professor	26-10-2011 onwards	Academic/Administrative	
Research Interests / Specialization					
Image Processing, Remote Sensing, Natural Language Processing, Machine Learning, Parallel Computing					
Research Experience in Years: 20					
No of Research Scholars Successfully Guided					
Name of Programme		Awarded		Under Supervision	
Ph.D.		01		05	
M.Phil.		0		0	
Dissertation (MTech)		03		0	
Researcher / Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
	56637603700	0000-0001-8100-7287	C-6216-2018	154275	ZrdbAYIAAAAJ&hl
Teaching Experience (Subjects/Courses Taught)					
BTech: Soft Computing, Image Processing, Advanced Computer Architecture, Principles of Programming Language, Remote Sensing, Data Structure, Compiler Design, Theory of Computation					
MCA: Image Processing, Advanced Computer Architecture					
PhD: Matlab Programming, Image Processing, Parallel Processing					

Honours / Awards & Fellowship FOR OUTSTANDING WORK									
Name of Award/ Fellowship			Awarded By						
			Name of Governmental Agency		Name of Government Supported Organization/ Department		Name of International Recognized Body		
MHRD (GATE) Fellowship for MTech			MHRD		IIT Roorkee		-		
QIP Fellowship for PhD			MHRD		AICTE		-		
International Travel Grant			-		IIT Kanpur		-		
International Travel Grant			MHRD		TEQIP-II		World Bank		
Publications /Academic Activities (Numbers Only)									
Books & Monograph s (Single Author)	2	Research Papers Published in International Journals	20	Papers Presented in Seminars/ Conferences	3	Seminars/ Conferences Organized	7	Research Projects (Complete d)	2
Books (Co- authored)	2	Research Papers Published in Other Journals		Seminar/ Conferences Attended	3	Workshops Organized	1	Research Projects (Ongoing)	4
Books (Edited)	2	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences	2	Membershi p of Academic/ Professional Bodies	2	Foreign Countries Visited for Academic Assignmen ts	2
Chapters in Edited Books				Resource Lectures Delivered	4				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs					
Name of Book	Year of Publication	Publisher	ISBN No		
SLM on Python	2021	UPRT Open University, Prayagraj	Awaited		
SLM on Computer Architecture	2022	UPRT Open University, Prayagraj	Awaited		
(b) Edited Books					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
2019	SLM on Multimedia	UPRT Open University, Prayagraj	978-93-83328-17-8		
2021	SLM on Windows Programming	UPRT Open University, Prayagraj	Awaited		
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2023	Detection of Apple Plant Diseases Using Leaf Images Through Convolutional Neural Network	IEEE Access	2169-3536	9	3.37
2023	A New Design of Occlusion-Invariant Face Recognition Using Optimal Pattern Extraction and CNN with GRU-Based Architecture	International Journal of Image and Graphics	1793-6756	-	1.6
2022	Comparison of Various Deep Convolutional Neural Network Models to Discriminate Apple Leaf Diseases Using	Journal of Plant Diseases and Protection	1861-3829	8	2.0

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	<b>Transfer Learning</b>				
<b>2022</b>	<b>Fusion of Hyperspectral and LiDAR Data Using Sparse Stacked Autoencoder for Land Cover Classification with 3D-2D Convolutional Neural Network</b>	<b>Journal of Applied Remote Sensing</b>	<b>1931-3195</b>	<b>6</b>	<b>1.70</b>
<b>2022</b>	<b>A comprehensive study of feature extraction techniques for plant leaf disease detection</b>	<b>Multimedia Tools and Applications</b>	<b>1380-7501</b>	<b>24</b>	<b>3.60</b>
<b>2021</b>	<b>Hyperspectral image classification using deep convolutional neural network and stochastic relaxation labelling</b>	<b>Journal of Applied Remote Sensing</b>	<b>1931-3195</b>	<b>7</b>	<b>1.70</b>
<b>2020</b>	<b>Plant disease detection using computational intelligence and image processing</b>	<b>Journal of Plant Diseases and Protection</b>	<b>1861-3829</b>	<b>138</b>	<b>2.0</b>
<b>2020</b>	<b>Hyperspectral image classification using three-dimensional geometric moments</b>	<b>IET Image Processing</b>	<b>1350-245X</b>	<b>5</b>	<b>2.2</b>
<b>2020</b>	<b>Feature extraction for hyperspectral image classification: a review</b>	<b>International Journal of Remote Sensing</b>	<b>0143-1161</b>	<b>73</b>	<b>3.4</b>
<b>2017</b>	<b>Hyperspectral Image</b>	<b>International Journal of</b>	<b>0143-1161</b>	<b>24</b>	<b>3.4</b>

	<b>Classification Based on Morphological Profiles and Decision Fusion</b>	<b>Remote Sensing</b>			
<b>2017</b>	<b>Spectral Contextual Classification of Hyperspectral Imagery with Probabilistic Relaxation Labelling</b>	<b>IEEE Transactions on Cybernetics</b>	<b>2168-2267</b>	<b>17</b>	<b>11.80</b>
<b>2016</b>	<b>Parallel probabilistic relaxation labelling based on Markov random fields for spectral-spatial hyperspectral image classification</b>	<b>International Journal of Remote Sensing</b>	<b>0143-1161</b>	<b>3</b>	<b>3.4</b>
<b>2016</b>	<b>Spectral-spatial classification of hyperspectral imagery based on moment invariants</b>	<b>IEEE Journal on Selected Topics in Applied Earth Observations and Remote Sensing</b>	<b>1939-1404</b>	<b>31</b>	<b>5.5</b>
<b>2011</b>	<b>Performance evaluation of routing protocols in vehicular ad hoc networks</b>	<b>International Journal of Internet Protocol Technology</b>	<b>1743-8209</b>	<b>17</b>	<b>0.3</b>
<b>2011</b>	<b>Performance Comparison of Topology and Position Based Routing Protocols in Vehicular Network Environments</b>	<b>International Journal of Wireless and Mobile Networks</b>	<b>0975-3834</b>	<b>37</b>	<b>-</b>
<b>2010</b>	<b>A study of Location Aided</b>	<b>International Journal of</b>	<b>0975-5292</b>	<b>29</b>	<b>-</b>

		<b>Routing (LAR) Protocol for Vehicular Ad Hoc Networks in Highway Scenario</b>	<b>Engineering and Information Technology</b>					
<b>d) Chapter/Paper Published in Edited Books</b>								
Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	DOI	Citation Google/web of science
National	International							
<b>(e) Invited as Resource Lectures Person/Examiner/Expert</b>								
<b>Resource person</b>	<b>Detail of Event</b>	<b>Title of Lecture</b>	<b>Date</b>	<b>Institution</b>				
<b>Dr. Brajesh Kumar</b>	<b>FDP on MATLAB</b>	<b>Neural Networks</b>	<b>2019</b>	<b>SRMS CETR, Bareilly</b>				
<b>Dr. Brajesh Kumar</b>	<b>FDP on MATLAB Tools and Its Applications</b>	<b>Image Processing Using Matlab</b>	<b>27-08-2018 (Morning Session)</b>	<b>SRMS CET, Bareilly</b>				
<b>Dr. Brajesh Kumar</b>	<b>FDP on MATLAB Tools and Its Applications</b>	<b>Image Processing Using Matlab</b>	<b>27-08-2018 (Evening Session)</b>	<b>SRMS CET, Bareilly</b>				
<b>Dr. Brajesh Kumar</b>	<b>IEEE Int. Conference on Internet of Things: Smart Innovation &amp; Usage (IOT-SIU), 2018.</b>	<b>Parallel Processing on MultiCore Processors and GPUs</b>	<b>24-02-2018</b>	<b>BIAS Bhimtal, Uttarakhand</b>				
<b>(f) Seminars/Conferences/Workshops Organized</b>								
<b>1. Symposium on Wavelet and its Applications in Engineering Problems, 2015.</b>								
<b>2. IEEE Int. Symposium on Internet of Things: Smart Innovation &amp; Usage (IOT-SIU), 2016.</b>								
<b>3. IEEE Int. Conference on Advances in Computing, Communication, and Automation, 2016.</b>								
<b>4. IEEE Int. Conference on Internet of Things: Smart Innovation &amp; Usage (IOT-SIU), 2017.</b>								
<b>5. Workshop on Data Analytics Using Python and R, 2020.</b>								

<b>(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)</b>					
<b>Year</b>	<b>Name of Project</b>	<b>Funding Agency</b>	<b>Amount</b>	<b>Duration</b>	
				<b>From</b>	<b>Till</b>
<b>2023</b>	<b>HyImC: A python-based software package for hyperspectral image classification using deep learning frameworks</b>	<b>ISRO</b>	<b>29.91 Lakh</b>	<b>2023</b>	<b>2026</b>
<b>2022</b>	<b>ACAI</b>	<b>UP Government</b>	<b>21.50 Lakh</b>	<b>2022</b>	<b>2025</b>
<b>2022</b>	<b>Smart Organic Agriculture (SOA): Modeling of Artificial Intelligence based IoT framework for Crop Recommendation &amp; Supply Chain Management using Blockchain</b>	<b>UP CST, Lucknow</b>	<b>9 Lakh</b>	<b>2023</b>	<b>2026</b>
<b>2022</b>	<b>Crop Health Monitoring Using Machine Learning</b>	<b>UP Government</b>	<b>6 Lakh</b>	<b>2022</b>	<b>2025</b>
<b>2021</b>	<b>Plant Disease Identification Using Computer Vision Techniques</b>	<b>UP Government</b>	<b>3 Lakh</b>	<b>2021</b>	<b>2024</b>
<b>2018</b>	<b>Feature extraction for hyperspectral image classification</b>	<b>TEQIP</b>	<b>2 Lakh</b>	<b>2018</b>	<b>2020</b>
<b>2018</b>	<b>Integration</b>	<b>ISRO</b>	<b>22.35 Lakh</b>	<b>2018</b>	<b>2020</b>



	of Spectral and Spatial Information for Hyperspectral Image Classification				
(h) Administrative Positions/Assignments Held					
Post	Organization	Duration			
		From	To		
Coordinator, ACAI	MJPRU, Bareilly	2020	Continue		
Associate Director	MJPRU, Bareilly	2020	Continue		
NSS Program Officer	MJPRU, Bareilly	15-10-2020	Continue		
Deputy Nodal Officer	MJPRU, Bareilly	2022	Continue		
HOD	Department of CSIT, MJPRU, Bareilly	30-08-2017	29-08-2020		
HOD	Department of CSIT, MJPRU, Bareilly	30-07-2011	29-07-2012		
BOS Convenor	CSIT, MJPRU, Bareilly	2010	2012		
(i) Seminar/Conference Presentations					
<div>1. Brajesh Kumar, and Onkar Dikshit, “Parallel implementation of morphological profile based spectral-spatial classification scheme for hyperspectral imagery,” The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (XXIII ISPRS Congress, Prague, Czech Republic), ISPRS, vol. XLI-B7, pp. 263-267, 2016.</div> <div>2. Brajesh Kumar, and Onkar Dikshit, “Integrating spectral and texture features for urban land cover classification with hyperspectral data,” Joint Urban Remote Sensing Event (JURSE), Lausanne, Switzerland, IEEE, pp. 1-4, 2015.</div> <div>3. Brajesh Kumar, and Onkar Dikshit, “Texture based hyperspectral image classification,” The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (ISPRS Technical Commission VIII Symposium, Hyderabad, India), vol. XL-8, pp. 793-798, 2014.</div>					
(j) Memberships of Academic/Professional Bodies					
Senior Member, IEEE and Life Member Indian Science Congress					
(k) Participation in Community Service / Exchange Programme/Consulting Activity					
<div>1. Program Officer, National Service Scheme</div> <div>2. Advisory boards of various conferences</div> <div>3. Session Chair of various conferences</div>					

<b>4. Study material preparation and editing for UPRTOU, Prayagraj</b>			
<b>(l) International Academic Exposure</b>			
<b>2016</b>	<b>Charles University, Prague</b>	<b>Prague, Czech Republic</b>	<b>2016</b>
<b>2015</b>	<b>EPFL</b>	<b>Lausanne, Switzerland</b>	<b>2015</b>
<b>(m) Any Other Details</b>			

[Brajesh Kumar]