

Faculty Profile on University Website

www.mjpru.ac.in

Designation Department Department of Computer Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department of Computer Science & IT MJP Rohilkhand University, Bareilly Department Science & IT MJP Rohilkhand Unive	Title Dr.	First Name	Brajesh	Last Na	me Kumar		Photograph	
Department Address First Floor, University Computer Centre MJP Rohilkhand University Bareilly-243006.	Designation	Associate Pro						
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Email bkumar@mjpru.ac.in Web-Page Educational Qualifications (Graduation Onwards)	Phone No.							
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Email bkumar@mjpru.ac.in	Mobile	+91 976003	18477			#		
Educational Qualifications (Graduation Onwards) Course/Degree	Fax							
Educational Qualifications (Graduation Onwards) Course/Degree Institution Year Details/Thesis Topic/Subjects PhD Indian Institute of Technology Kanpur, Kanpur Classification of hyperspectral imagery MTech (Computer Sc. & Tech.) Indian Institute of Technology Roorkee, Roorkee	Email	bkumar@i	mjpru.ac.in					
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MTech (Computer Sc. & Tech.)Indian Institute of Technology Roorkee, Roorkee2001Thesis title: Path Rerouting Schemes for Wireless ATM NetworksMSc (Physics)C.C.S. University, Meerut1998Specialization: ElectronicsBScC.C.S. University, Meerut1996-Career ProfileOrganization / InstitutionDesignationDurationRoleDepartment of Computer Science & IT MJP Rohilkhand University, BareillyAssociate ProfessorAug 2011- OnwardsAcademicDirectorate of Research MJP Rohilkhand University, BareillyAssociate DirectorOct 2020- OnwardsAcademicDepartment of Computer Science & IT MJP Rohilkhand University, BareillyReaderAug 2008-Aug AcademicAcademicDepartment of Computer Science & IT MJP Rohilkhand University, BareillyLecturerOct 2002-Aug AcademicAcademicScience & IT MJP Rohilkhand University, BareillyLecturerOct 2002-Aug AcademicAcademicScience & IT MJP Rohilkhand University, BareillyDepartment of Computer AcademicAcademic		Technology	/ Kanpur, Kan	pur		classif	fication of hyperspectral	
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The major interests of research include image processing, machine learning, and parallel computing with a special focus on remote sensing and medical imaging. Hyperspectral image classification is one of my most recent research efforts. It includes the integration of spectral and spatial information for better classification accuracy. It is achieved either by post classification refinement or by combined spectral-spatial feature set. However due to large data volume and complex algorithms such classification methods are sometimes computationally expensive. To alleviate the higher execution time parallel implementation of such methods is done on GPUs. The ongoing work also includes the use of image processing and machine learning techniques in

the field of precision agriculture and water research. The objectives include development of methods for automatic detection and diagnosis of plant diseases and prediction of phenotyping traits. Another research interests aims at developing algorithms for the assessment of water quality using remote sensing data.

Teaching Experience (Subjects/Courses Taught)

Honors & Awards

- **TEQIP-II Travel Grant** to visit Prague, Czech Republic to present paper at **2016** ISPRS Congress.
- **Institute Travel Grant** by IIT Kanpur to visit Lausanne, Switzerland to present research paper at JURSE-2015.
- **QIP Fellowship** to pursue PhD at IIT Kanpur.
- MHRD Fellowship (GATE) to pursue MTech at IIT Roorkee.

Publications / Academic Activities (Numbers Only)									
Books &	2	Research Papers	28	Papers Presented	15	Seminars/	4	Research	2
Monographs		Published in		in Seminars/		Conferences		Projects	
(Single		International		Conferences		Organized		(Completed)	
Author)		Journals							
Books (Co-		Research Papers	6	Seminar/	15	Workshops		Research	5
authored)		Published in		Conferences		Organized		Projects	
		Other Journals		Attended				(Ongoing)	
Books (Edited)	3	Articles Published		Sessions Chaired	2	Membership	2	Foreign	2
Chamtana in		in Popular Fora,		in Seminars/		of Academic/		Countries	
Chapters in Edited Books		e.g., Websites,		Conferences		Professional		Visited for	
Euiteu Dooks		Blogs,		Resource	6	Bodies		Academic	
		Newspapers,		Lectures				Assignments	
		Magazines etc.		Delivered					

Details of Publications / Academic Activities (2010 Onwards)

Year of Publication	<u>Title</u>	<u>Publisher</u>	<u>ISBN</u>	Co-Author (s) (if any)

(b) Recent Publication in SCI/Scopus Journals

Publications in SCI Listed Journals

- 1. Kumar, P., Kumar, B., and Kumar, S. (2025). Theoretical insights into the h-NbN monolayer for selective and moisture-resistant gas sensing: an ab initio study. Electronic Structure.
- 2. Kumar, P., Kumar, Singh, H. K., B., and Kumar, S. (2025). First-principles investigation of stanene-based toxic gas sensors: Coupled electrical and optical sensitivities. Solid State Communications.
- 3. Mohan, S., **Kumar, B.,** & Nejadhasemi, P. A. (2025). Integration of Machine Learning and Remote Sensing for Water Quality Monitoring and Prediction: A Review. *Sustainability*, 17, 998.
- 4. Pankaj, **Kumar, B.**, Bharti, P. K., Vishnoi, V. K., Kumar, K., Mohan, S., & Singh, K. P. (2024). Paddy yield prediction based on 2D images of rice panicles using regression techniques. *The Visual Computer*, 40, 4457-4471.

- 5. Vishnoi, V. K., Kumar, K., **Kumar, B.**, Mohan, S., & Khan, A. A. (2022). Detection of apple plant diseases using leaf images through convolutional neural network. *IEEE Access*, *11*, 6594-6609.
- 6. Pankaj, Bharti, P. K., & **Kumar, B.** (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*, 23(04), 2350029.
- 7. Pradhan, P., **Kumar, B.**, & Mohan, S. (2022). Comparison of various deep convolutional neural network models to discriminate apple leaf diseases using transfer learning. *Journal of Plant Diseases and Protection*, 129(6), 1461-1473.
- 8. Singh, M. K., Mohan, S., & **Kumar**, **B.** (2022). Fusion of hyperspectral and LiDAR data using sparse stacked autoencoder for land cover classification with 3D-2D convolutional neural network. *Journal of Applied Remote Sensing*, *16*(3), 034523-034523.
- 9. Vishnoi, V. K., Kumar, K., & **Kumar**, **B.** (2022). A comprehensive study of feature extraction techniques for plant leaf disease detection. *Multimedia Tools and Applications*, 81(1), 367-419.
- 10. Singh, M. K., Mohan, S., & **Kumar**, **B.** (2021). Hyperspectral image classification using deep convolutional neural network and stochastic relaxation labeling. *Journal of Applied Remote Sensing*, 15(4), 042612-042612.
- 11. Vishnoi, V. K., Kumar, K., & **Kumar**, **B.** (2021). Plant disease detection using computational intelligence and image processing. *Journal of Plant Diseases and Protection*, 128, 19-53.
- 12. **Kumar, B.** (2020). Hyperspectral image classification using three-dimensional geometric moments. *IET Image Processing*, *14*(10), 2175-2186.
- 13. **Kumar, B.**, Dikshit, O., Gupta, A., & Singh, M. K. (2020). Feature extraction for hyperspectral image classification: A review. International Journal of Remote Sensing, 41(16), 6248-6287.
- 14. **Kumar, B.** & Dikshit, O. (2017). Hyperspectral Image Classification Based on Morphological Profiles and Decision Fusion. *International Journal of Remote Sensing*, 38(20), 5830-5854.
- 15. **Kumar, B.** & Dikshit, O. (2017). Spectral Contextual Classification of Hyperspectral Imagery with Probabilistic Relaxation Labelling. *IEEE Transactions on Cybernetics*, 47(12), 4380-4391.
- 16. **Kumar, B.** & Dikshit, O. (2016). Parallel probabilistic relaxation labelling based on Markov random fields for spectral-spatial hyperspectral image classification. *International Journal of Remote Sensing*, 37(18), 4356-4379.
- 17. **Kumar, B.** & Dikshit, O. (2015). Spectral-spatial classification of hyperspectral imagery based on moment invariants. *IEEE Journal on Selected Topics in Applied Earth Observations and Remote Sensing*, 8(6), 2457-2463.

Publications in SCOPUS Journals

- 1. Singh, S., Kumar, K., & **Kumar, B.** (2024). Analysis of feature extraction techniques for sentiment analysis of tweets. *Turkish Journal of Engineering*, 8 (4), 741-753.
- 2. Vishnoi, V. K., Kumar, K., Kumar, B., & Bhutiani, R. (2024). A stacking ensemble

- machine learning based approach for classification of plant diseases through leaf images. *Environment Conservation Journal*, 767-778.
- 3. Pradhan, P., **Kumar, B.**, Kumar, K., & Bhutiani, R. (2024). Plant disease detection using leaf images and an involutional neural network. *Environment Conservation Journal*, 452-462.
- 4. Pankaj, Bharti, P. K., & **Kumar, B.** (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, 23 (04), 2350029.
- 5. Husain, A., **Kumar**, **B.**, and Doegar, A. (2010). Performance evaluation of routing protocols in wireless adhoc networks. *International Journal of Internet Protocol Technology*, 6 (1/2), 38-45.

Publications in Other Peer Reviewed Journals

- 1. Kumar, P. Doegar, A. & **Kumar, B.** (2016). Impact of Mobility on Energy Consumption of AODV Protocol for Routing in Mobile Ad Hoc Networks. *International Journal of Computer Applications*, 152 (9), 14-17.
- 2. Kumar, P. **Kumar**, **B.** & Doegar, A. (2016) Impact of Mobility on Energy Consumption of DSR Protocol for Routing in Mobile Ad Hoc Networks. *International Journal of Engineering Research and Management*, 3 (9), 67-69
- 3. Hrudya KP, **Kumar**, **B.** & Gupta, P. (2013). Impact of Mobility on Different Routing Approaches in MANETs. *International Journal of Computer Applications*, 63 (23), 18-22.
- 4. Singh, M. K., **Kumar**, **B.**, Kumar, C., & Gupta, M. (2011). Preemptive Multipath Adhoc on Demand Distance Vector Routing Protocol. *MIT International Journal of Computer Science and Information Technology*, 1 (1), 36-40.
- 5. Bisht, A. K., **Kumar, B.**, Mishra, S., Husain, A. (2011). Simulation Based Analysis of Position Based Routing Protocols in Vehicular Ad hoc Networks. *International journal of Advances in Computer Networks and its Security*, 1, 192-202.
- 6. Husain, A., **Kumar, B.,** and Doegar, A. (2010). A Study of location aided routing (LAR) protocol for vehicular adhoc networks in highway scenario. *International Journal of Engineering & Information Technology*, 2 (2), 118-124.

(c) Articles

(d) Seminar/Conference Presentations

- 1. Singh, M. K., & **Kumar**, **B**. (2023). Fine Tuning the Pre-Trained Convolutional Neural Network Models for Hyperspectral Image Classification Using Transfer Learning. In Computer Vision and Robotics: Proceedings of CVR 2022 (pp. 271-283). Singapore: Springer Nature Singapore.
- 2. Singh, M. K., & **Kumar, B.** (2022, November). A Comparative Study of Different Convolution Neural Network Architectures for Hyperspectral Image Classification. In 2022 7th International Conference on Computing, Communication and Security

- (ICCCS) (pp. 1-6). IEEE.
- 3. Lama, A., Vishnoi, V. K., Kumar, K., **Kumar, B.**, & Saini, A. (2022, November). E-waste, a Global Challenge: Its Management and Impact on Public Health in India. In 2022 International Conference on Fourth Industrial Revolution Based Technology and Practices (ICFIRTP) (pp. 25-29). IEEE.
- 4. Pradhan, P., & **Kumar**, **B.** (2022, May). Automatic detection of tomato diseases using fine-tuned pre-trained deep learning models. In 2022 3rd international conference for emerging technology (INCET) (pp. 1-5). IEEE.
- 5. Singh, S., Kumar, K., & **Kumar, B.** (2022, May). Sentiment analysis of Twitter data using TF-IDF and machine learning techniques. In 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) (Vol. 1, pp. 252-255). IEEE.
- 6. Vishnoi, V. K., Kumar, K., & **Kumar**, **B.** (2021, December). Crop disease classification through image processing and machine learning techniques using leaf images. In 2021 First International Conference on Advances in Computing and Future Communication Technologies (ICACFCT) (pp. 27-32). IEEE.
- 7. Pradhan, P., & **Kumar**, **B.** (2021, December). Tomato leaf disease detection and classification based on deep convolutional neural networks. In 2021 First International Conference on Advances in Computing and Future Communication Technologies (ICACFCT) (pp. 13-17). IEEE.
- 8. Tripathi, A. M., Upadhyay, A., Rajput, A. S., Singh, A. P., & **Kumar, B.** (2017, March). Automatic detection of fracture in femur bones using image processing. In 2017 international conference on innovations in information, embedded and communication systems (ICIIECS) (pp. 1-5). IEEE.
- 9. **Kumar, B.**, & Dikshit, O. (2016). 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, 41, 263-267.
- 10. **Kumar, B.**, & Dikshit, O. (2015, March). Integrating spectral and textural features for urban land cover classification with hyperspectral data. In 2015 Joint Urban Remote Sensing Event (JURSE) (pp. 1-4). IEEE.
- 11. **Kumar, B.**, & Dikshit, O. (2014). Texture based hyperspectral image classification. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 40, 793-798.
- 12. Prabhakaran, H. K., **Kumar**, **B.**, & Gupta, P. (2013, March). Performance evaluation of manet routing protocols under rpgm model by varying transmission range. In 2013 International Mutli-Conference on Automation, Computing, Communication, Control and Compressed Sensing (iMac4s) (pp. 823-826). IEEE.
- 13. Bisht, A. K., **Kumar, B.**, & Mishra, S. (2012, January). Efficiency evaluation of routing protocols for Vehicular Ad-Hoc Networks using city scenario. In 2012 International Conference on Computer Communication and Informatics (pp. 1-7). IEEE.
- 14. Husain, A., Raw, R. S., **Kumar, B.**, & Doegar, A. (2011). Performance comparison of different routing protocols in vehicular network environments. In Advances in Computing and Information Technology: First International Conference, ACITY 2011, Chennai, India, July 15-17, 2011. Proceedings (pp. 427-436). Springer Berlin

Heidelberg.

15. Prakash, V., Kumar, B., & Srivastava, A. K. (2011, February). Energy efficiency comparison of some topology-based and location-based mobile ad hoc routing protocols. In Proceedings of the 2011 International Conference on Communication, Computing & Security (pp. 36-39).

(e) Resource Lectures Delivered

1

(f) Seminars/Conferences/Workshops Organized

(g) Public Service / University Service / Consulting Activity

(h) Memberships of Academic/Professional Bodies

- 1. Senior Member, IEEE
- 2. Life Member, Indian Science Congress

Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Projects Ongoing:

Title	Year	Grant (Rs)	Funding Agency
Electron-Phonon	(2024-2027)	Rs. 40.41 Lakh	SERB-DST Govt. of
Coupling Effects on			India
Thermoelectrics			
Performance of High			
Entropy Alloys Based			
on Heusler			
Compounds: First-			
principles Insight			
HyImC: A python-	(2024-2027)	Rs. 24.22 Lakh	SERB-DST Govt. of
based software			India
package for			
hyperspectral image			
classification using			
deep learning			
frameworks.			
Crop Health	(2022- 2025)	Rs. 6 Lakh	Govt. of UP
Monitoring Using			
Machine Learning.			
Atal Centre for	(2022-2025)	Rs. 21.5 Lakh	Govt. of UP
Artificial Intelligence			
Smart Organic	(2023-2026)	Rs. 9.0 Lakh	UP CST
Agriculture (SOA):			
Modeling of Artificial			
Intelligence based IoT			
framework for Crop			
Recommendation &			
Supply Chain			
Management using			

Blockchain.			
Plant Disease	(2021-2024)	Rs. 6 Lakh	Govt. of UP
Identification Using			
Computer Techniques.			

Projects Completed

Title	Funding Agency	Grant
Integration of Spectral and	ISRO	Rs. 22.35 Lakh
Spatial Information for		
Hyperspectral Image		
Classification.		
Feature extraction for	TEQIP-III	Rs. 2 Lakh
hyperspectral image		
Classification.		

Administrative Positions/Assignments Held

Administrative 1 ositions/Assign		
Organization / Institution	Designation	Duration
University Computer Centre	Coordinator	July 2023-Onwards
MJP Rohilkhand University,		
Bareilly		
Atal Centre for Artificial	Coordinator	Oct 2020-Onwards
Intelligence MJP Rohilkhand		
University, Bareilly		
DigiShakti MJP Rohilkhand	Deputy Nodal Officer	July 2022-October 2024
University, Bareilly		
National Service Scheme MJP	Program Officer	Oct 2020-Dec 2023
Rohilkhand University,	_	
Bareilly		
Department of Computer	Head of Department	Aug 2017-Aug 2020
Science & IT MJP Rohilkhand	_	
University, Bareilly		
Department of Computer	Head of Department	Jul 2011-Jul 2012
Science & IT MJP Rohilkhand	•	
University, Bareilly		
Boar of Studies Department of	Convenor	Aug 2010-Jul 2012
Computer Science & IT MJP		
Rohilkhand University,		
Bareilly		
University, Bareilly Boar of Studies Department of Computer Science & IT MJP Rohilkhand University,	Convenor	Aug 2010-Jul 2012

Academic Foreign Visits

- 1. EPFL, Lussane, Switzer; and, 2014
- 2. University of Charles, Prague, 2016

Any Other Details

Signature of Faculty Member (in Hard Copy Only)

Note: Please submit this file to E-mail ID: rkg@mjpru.ac.in through your own E-mail ID.