

### Faculty Profile

<b>Faculty Name</b>	<b>Saurabh Kumar</b>
<b>Designation</b>	<b>Assistant Professor</b>
<b>Qualification</b>	Ph.D. (Thesis submitted), MCA
<b>Email</b>	<a href="mailto:saurabhpathak.gkv@gmail.com">saurabhpathak.gkv@gmail.com</a>
<b>Area of Interest</b>	Image Processing, Remote sensing, GIS, Spatial Data Science, and Artificial Intelligence
<b>Work Experience (Total)</b>	
<ul style="list-style-type: none"> <li>• Teaching</li> </ul>	1 year
<ul style="list-style-type: none"> <li>• Research</li> </ul>	
<ul style="list-style-type: none"> <li>• Industry</li> </ul>	
<ul style="list-style-type: none"> <li>• Others</li> </ul>	
<b>Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level</b>	MCA, BSc (computer science)
<b>Membership of Professional Bodies</b>	-NA-
<b>Research Publications</b>	
<ul style="list-style-type: none"> <li>• Research Papers UGC-CARE</li> </ul>	1
<ul style="list-style-type: none"> <li>• Research Papers SCOPUS</li> </ul>	3
<ul style="list-style-type: none"> <li>• Research Papers WoS/SCI/ABDC</li> </ul>	1
<ul style="list-style-type: none"> <li>• List of Publications</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Saurabh Kumar</b>, Shwetank and Kamal Jain (2020), “A Multi-Temporal Analysis of Land-use Land-cover Change in Haridwar Region using Remote Sensing Techniques” in published in <b>Procedia Computer Science</b>, 170, pp. 1184-1193, <b>Elsevier-Science Direct (SCOPUS INDEXED)</b>.</li> </ul>

- **Saurabh Kumar**, and Shwetank (2020), “Classification of Multi-spectral Landsat Satellite Imagery Dataset Using Feature Extraction Method” published in International Journal of Innovative Technology and Exploring Engineering (**IJITEE**), Volume-9, Issue-4, pp.1866-1871 (**SCOPUS INDEXED**).
- **Saurabh Kumar**, and Shwetank (2020), “Change Detection Techniques for Land Cover Change Analysis using Spatial Datasets: A Review”, DOI: 10.1007/s41976-021-00056-z (in press), in **Remote Sensing in Earth Systems Science**, Springer Nature.
- **Saurabh Kumar**, Shwetank, Kamal Jain (2020), “Develop a Vegetation Index Based on SWIR for Change Detection in Land Cover using Multi-Temporal Landsat Satellite Dataset”, DOI 10.1007/s41870-021-00797-6, in **International Journal of Information Technology (IJIT) SCOPUS Indexed - Springer Nature**.
- **Saurabh Kumar**, Shwetank, Kamal Jain (2021), “Development of Spectral Signature of Land Cover and Feature Extraction using Artificial Neural Network Model” **published in IEEE Xplore, ISBN: 978-1-7281-8529-3/21**

	<p>(Scopus Indexed).</p> <ul style="list-style-type: none"> <li>• <b>Saurabh Kumar</b>, Shwetank, Kamal Jain (2021), “Feature Extraction and Change detection of Land Use/Land Cover from Landsat Satellite Imagery using SVM Classifier” Accepted in <b>International Journal of Next Generation Computing (ESCI Indexed).</b></li> </ul>
<b>Book and Chapter Publications</b>	-NA-
<ul style="list-style-type: none"> <li>• Books Authored published by International Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Books Authored published by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Publication of Chapter in Edited Books</li> </ul>	
<ul style="list-style-type: none"> <li>• Editor of Book by International Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Editor of Book by National Publishers</li> </ul>	
<ul style="list-style-type: none"> <li>• Translation Work of Book</li> </ul>	
<ul style="list-style-type: none"> <li>• List of Book and Chapter Publications</li> </ul>	
<b>Patents</b>	-NA-
<ul style="list-style-type: none"> <li>• Published</li> </ul>	
<ul style="list-style-type: none"> <li>• List of published patent(s)</li> </ul>	
<ul style="list-style-type: none"> <li>• Filed</li> </ul>	
<ul style="list-style-type: none"> <li>• List of filed patent(s)</li> </ul>	
<b>PhD Guidance</b>	-NA-
<ul style="list-style-type: none"> <li>• Degree Awarded</li> </ul>	
<ul style="list-style-type: none"> <li>• Thesis Submitted</li> </ul>	
<b>M.Tech. Guidance</b>	-NA-
<ul style="list-style-type: none"> <li>• Degree Awarded</li> </ul>	

<ul style="list-style-type: none"> <li>• Thesis Submitted</li> </ul>	
<b>Research Project</b>	-NA-
<ul style="list-style-type: none"> <li>• List of Research project</li> </ul>	
<b>Consultancy</b>	-NA-
<ul style="list-style-type: none"> <li>• List of Consultancy</li> </ul>	
<b>Awards &amp; Honours</b>	-NA-
<ul style="list-style-type: none"> <li>• List of Awards &amp; Honours</li> </ul>	
<b>Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference</b>	
<ul style="list-style-type: none"> <li>• International (Abroad)</li> </ul>	-NA-
<ul style="list-style-type: none"> <li>• International (Within Country)</li> </ul>	3
<ul style="list-style-type: none"> <li>• National</li> </ul>	2
<ul style="list-style-type: none"> <li>• List of published papers</li> </ul>	<ul style="list-style-type: none"> <li>• Presented a research paper entitled “Development of Spectral Signature of Land Cover and Feature Extraction using Artificial Neural Network Model” in ICCIS-2021, International Conference on Computing, Communication, and Intelligent Systems, Sharda University, Noida.</li> <li>• Presented a research paper entitled “Monitoring the Growth of Vegetation using Vegetation Indices: A Review” in International Conference on Advanced Computing Technologies (ACT-2021), Invertis University, Bareilly.</li> <li>• Presented a research paper entitled “Role of GIS in COVID-19 Pandemic” National conference on Issues</li> </ul>

	<p>“RELEVANCE OF VEDA, SCIENCE &amp; TECHNOLOGY IN COVID-19” organized by Gurukula Kangri Vishwavidyalaya, Haridwar, July 2020.</p> <ul style="list-style-type: none"> <li>• Presented a research paper entitled “A Multi-Temporal Landsat data Analysis for Land-use/Land-cover Change in Haridwar Region using Remote Sensing Techniques” in Third International Conference on Computing and Network Communications (CoCoNet’19), Procedia Computer Science, IITM Trivandrum, Kerala, 2019.</li> <li>• Presented a research paper entitled “Role of GIS in MSME as a Potential Contributor” National conference on Issues Impacting sustainability and growth of MSMEs in Digital India, Quantum University, Roorkee, 2018.</li> <li>• Presented a research paper entitled “Geographical Feature Extraction of Land Cover Using the Machine Learning” in International Conference on Next Generation Computing &amp; Information Systems organized on 11<sup>th</sup>-12<sup>th</sup> December, 2017 at MIET, Kot Bhalwal, Jammu, India.</li> </ul>
<p><b>Organizing National Conference/ International Conference/ FDP/STTP</b></p>	<ul style="list-style-type: none"> <li>• Acts as <b>organizing committee member in two day national conference</b> on title “RELEVANCE OF</li> </ul>

	<p>VEDA, SCIENCE &amp; TECHNOLOGY IN COVID-19” organized by Gurukula Kangri University Haridwar, July 2020.</p> <ul style="list-style-type: none"> <li>• Acts as <b>organizing committee member in two day workshop</b> on “Business Analysis using Python” organized by Gurukula Kangri University Haridwar, 2019.</li> <li>• Acts as <b>organizing committee member in two day workshop</b> on “WordPress and SEO” organized by Gurukula Kangri University Haridwar, 2019.</li> <li>• Acts as <b>active member in three day National Vedic Seminar</b> organized by Gurukula Kangri University Haridwar, 2019.</li> </ul>
<ul style="list-style-type: none"> <li>• List of Conference/FDP/STTP committee</li> </ul>	
<p><b>Social Contributions and Sports</b></p>	<p>-NA-</p>
<ul style="list-style-type: none"> <li>• <b>List of Social Contributions and Sports</b></li> </ul>	