

PERSONAL DETAILS

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EDUCATION

Degree	College/School	Subject	Year of Passing
Ph.D	Computer Science & Engineering, IIT (BHU) Varanasi, India	CSE	2023
M.Tech	Computer Science & Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur, India	CSE	2018
B.E.	UPTU	CSE	2013

WORK EXPERIENCE

Assistant Professor
Indian Institute of Information Technology, Ranchi
Jun 2025 – Present

Assistant Professor,
School of Computer Science, UPES Dehradun
July 2023 – May 2025

RESEARCH AREAS

1. Computer Vision (Image & Video Processing)
2. Hyperspectral Imaging
3. Action Recognition in Videos
4. Deep Learning & Lightweight Neural Architectures
5. Spectral-Spatial Feature Extraction
6. Efficient Vision Models for Edge Devices

RESEARCH WORK SUMMARY

Journals (SCI/Scopus Indexed)	Other Journals	International Conferences	Books/Book Chapters	Total Publications
5		3		
Projects	Ph.D (Awarded)	Ph.D (Ongoing)	Citations	H-Index

SKILLS

ADMINISTRATIVE RESPONSIBILITIES

PUBLICATIONS

SCI Indexed Journals:

Year	Title	Venue	Impact Factor
2021	FactorNet: Holistic Actor, Object, and Scene Factorization for Action Recognition in Videos	<i>IEEE T. Circuits and Systems for Video Technology</i>	8.3
2022	Fall-perceived Action Recognition of Persons with Neurological Disorders using Semantic Supervision	<i>IEEE T. Cognitive and Developmental Systems</i>	5
2022	Emotion and Gesture Guided Action Recognition in Videos Using Supervised Deep Networks	<i>IEEE T. Computational Social Systems</i>	4.5
2022	Supervised Attention Network for Arbitrary-shaped Text Detection in Edge-faint Noisy Scene Images	<i>IEEE T. Computational Social Systems</i>	4.5
2021	Met-MLTS: Leveraging Smartphones for End-to-end Spotting of Multilingual Oriented Scene Texts and Traffic Signs in Adverse Meteorological Conditions	<i>IEEE T. Intelligent Transportation Systems</i>	7.9
2025	Enhancing Hyperspectral Image Classification Through Transformer-based Contextualization and Novel Logarithmic Convolutional Techniques	<i>Infrared Physics & Technology</i>	3.1

International Conferences:

Title	Authors	Conference	Year
Lexicon-based Approach to Sentiment Analysis of Tweets using R Language	Nitika Nigam, Divakar Yadav	ICACDS 2018 (Advances in Computing and Data Sciences), Dehradun, India	2018
Impact of Noisy Labels in Learning Techniques: A Survey	Nitika Nigam, Tanima Dutta, H.P. Gupta	ICDIS (Advances in Data and Information Science)	2019
Learning Improved Dense Trajectories in Guided Feature Space	Deepali Verma, Nitika Nigam	Procedia Computer Science	2025

DECLARATION

I hereby declare that the above particulars are true to the best of my knowledge and belief.

Dr. Nitika Nigam
(Name of Faculty)
Last Updated: 27/8/25