

Demographic and Personal Information

Contact Information: Dr. Harsh Srivastava

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Education

- **Ph.D. (Information Technology)**
IIIT Allahabad (2025)
Title: Multi-temporal Applications of Satellite Imagery in Environmental Monitoring for Vegetation, Flood and Air Pollution
- **M. Tech. (Intelligent System)**
IIIT Allahabad, (2016-2018)
- **B. Tech. (Computer Science and Engineering)**
APJAKTU, (2011-2015)

Research Interests

-  **Satellite Image Processing** / *Remote Sensing & Earth Observation*
-  **Time Series Analysis** / *Temporal Pattern Mining*
-  **Machine Learning for Spatio-temporal Data** / *Predictive Analytics*
-  **Data Analysis & Pattern Recognition** / *Statistical Modeling*
-  **Hazard Monitoring using Satellite Imagery** / *Disaster Management*
-  **Deep Learning for Spatio-temporal Data** / *Neural Networks & AI*

Research Profiles

- Google Scholar: [Google Scholar Profile](#)
- SCOPUS: [SCOPUS Profile](#)

Research Publications

Journals

1. Harsh Srivastava, Shikha Verma, and Triloki Pant. "Analysis of the Effect of Lockdown on Air Pollutants using Multi-source Pollution Data and Meteorological Variables for the State of Uttar Pradesh" (**published**) (**SCIE**)
2. Harsh Srivastava, and Triloki Pant. "Estimation of Flood Water Spread and Affected Population of Central Bihar, India, using a Multi-temporal Approach" (*under review*) (*Discover Geoscience*)

2. Harsh Srivastava and Triloki Pant. "A Time Series Approach for Wheat Crop Harvest Detection using Multispectral Data" IEEE International Geoscience and Remote Sensing Symposium (CORE-C), 2021 (**h5 index: 40**)
3. Harsh Srivastava and Triloki Pant. "Vegetation Cover Estimation using Sentinel-2 Imagery" ICDAC 2022
4. Harsh Srivastava and Triloki Pant. "Evaluation of ESA CCI Above Ground Biomass Using Multi-Source, Multi-Spectral Data and Machine Learning" IEEE International Geoscience and Remote Sensing Symposium (CORE-C), 2023 (**h5 index: 40**)
5. Harsh Srivastava and Triloki Pant. "Beyond NDVI: A Proposed Vegetation Cover Index (VCI) for Crop and Vegetation Segregation" IEEE India Geoscience and Remote Sensing Symposium (InGARSS), 2024 (In press) (**h5 index: 9**)
6. Harsh Srivastava and Triloki Pant. "Working with Geospatial Features, Sentinel-2 MSI and Machine Learning for Predicting Tree Canopy Level Landsat-8 Derived LST at 30m" IEEE India Geoscience and Remote Sensing Symposium (InGARSS), 2024 (In press) (**h5 index: 9**)
7. Harsh Srivastava, Jitendra and Triloki Pant. DEVELOPMENT OF NOVEL INDICES FOR WATER FEATURE EXTRACTION AND SEGREGATION IN FLOODED LANDSCAPES WITH DIVERSE WATER BODIES. IEEE International Geoscience and Remote Sensing Symposium (CORE-C) (Accepted) (**h5 index: 40**)
8. Harsh Srivastava and Triloki Pant. Novel Indices Generation for Mapping and Distinguishing Forest Fire Classes based on Sentinel-2 MSI (Communicated in IC3 2025)

Conference/Workshop Organizing Committees

- 2019: Organizing committee member for Workshop "Satellite Image Analysis for Contemporary Applications: Hands on with ENVI and MATLAB" at IIIT Allahabad
- 2019: Organizing committee member for Workshop "Effective Image Processing and Machine Learning Tools" at IIIT Allahabad
- 2019: Organizing committee member for Conference "Machine Learning and Signal Processing (MISP)" at IIIT Allahabad

Professional Membership

- IEEE: Since 2020

Subjects Taught

- Data Analysis and Visualization (UG)
- Computer Network Workshop (CISCO) (UG)
- Operating System Workshop (UNIX) (UG)
- Computer System Organization (UG)