

Dr. Sanjit Kumar

Assistant Professor, DoCSE, SVNIT Surat.

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Areas of Interest

- Artificial Intelligence, Machine Learning, Deep Learning, Image processing, Computer vision, Time Series Forecasting, Natural Language Processing.

Education

Ph.D. (CSE)

Jan 2020 - May 2024

(Supervisor: [Dr. Mayank Agarwal](#))

Indian Institute of Technology Patna

Thesis title: Artificial Intelligence based Models to Decipher Natural Phenomena.

M.Tech. (CSE)

June 2017 - May 2019

(Supervisor: [Dr. Diptendu Bhattacharya](#))

National Institute of Technology Agartala

Thesis title: Real time face detection and recognition using MatLab.

B.Tech. (CSE)

Aug 2013 - June 2017

(Supervisor: Mr. Abhishek Kumar)

Motihari College of Engineering, Motihari

Project title: Railway Reservation System using PHP.

List of Publication

Journals.....

1. C Suman, K Rana, **Sanjit Kumar**, GV Singh, [Knowing When Not to Answer: Mitigating Social Bias in LLMs via Epistemic Abstention](#), Transactions on Machine Learning Research (2026).
2. **Sanjit Kumar**, M Agarwal, U Rathnayake, [Hybrid Machine Learning for Predicting Particle Froude Number in Auto-Washout Drainage Systems with Sedimented Beds](#), Journal of Data Science and Intelligent Systems (2026) (IF=11.5) Q1.
3. **Sanjit Kumar**, M Agarwal, U Rathnayake, [Standalone and Novel Hybrid ML Models for Estimating Stream Velocities in a River Channel with Vegetation](#), Evolving Earth (2026).
4. **Sanjit Kumar**, M Agarwal, V Deshpande, [Standalone and Hybrid machine learning approaches to predict total sediment load in an alluvial channel](#), Engineering Applications of Artificial Intelligence (2025) (IF=8) Q1.
5. **Sanjit Kumar**, B Kirar, M Agarwal, V Deshpande, U Rathnayake, [Efficient Functioning of a Sewer System: Application of Novel Hybrid Machine Learning Methods for the Prediction of Particle Froude Number](#), Journal of Hydroinformatics (2024) (IF=2.4) Q2.
6. **Sanjit Kumar**, G Oliveto, V Deshpande, M Agarwal, U Rathnayake, [Forecasting of Time-Dependent Scour Depth based on Bagging and Boosting Machine Learning Approaches](#), Journal of Hydroinformatics (2024) (IF=2.4) Q2.
7. **Sanjit Kumar**, M Agarwal, V Deshpande, JR Cooper, K Khosravi, N Rathnayake, Y Hoshino, K Kantamaneni, U Rathnayake, [AI-Driven Predictions of Geophysical River Flows with Vegetation](#), Scientific Reports, Springer Nature (2024) (IF=3.8) Q2.
8. **Sanjit Kumar**, V Deshpande, M Agarwal, U Rathnayake, [Forecasting Particle Froude Number in Non-Deposition Scenarios within Sewer Pipes through Hybrid Machine Learning Approaches](#), Results in Engineering Elsevier (2024) (IF=7.9) Q1.
9. **Sanjit Kumar**, V Deshpande, B Kumar, M Agarwal, [Predicting Flow Velocity in a Vegetative Alluvial Channel using Standalone and Hybrid Machine Learning Techniques](#), Expert Systems With Applications Elsevier (2023) (IF=7.5) Q1.
10. **Sanjit Kumar**, MK Goyal, V Deshpande, M Agarwal, [Estimation of Time Dependent Scour Depth around Circular Bridge Piers: Application of Ensemble Machine Learning Methods](#), Ocean Engineering Elsevier (2023) (IF=5.5) Q1.
11. **Sanjit Kumar**, B Kirar, M Agarwal, V Deshpande, [Application of novel hybrid machine learning techniques for particle Froude number estimation in sewer pipes](#), Natural Hazards Springer (2022) (IF=3.7) Q1.
12. ML Pattanaik, **Sanjit Kumar**, R Choudhary, M Agarwal, B Kumar, [Predicting the abrasion loss of open-graded friction course mixes with EAF steel slag aggregates using machine learning algorithms](#), Construction and Building Materials Elsevier (2022) (IF=8) Q1.

Conferences

1. L Kumari, G Srivastava, **Sanjit Kumar**, *Optimizing Intrusion Detection Systems Using Machine Learning for Enhanced Cybersecurity and Threat Prevention*, ICACSDF 25: International Conference on Advancement in Cyber Security and Digital Forensics (11 - 12 April 2025), University of Petroleum and Energy Studies, Dehradun, India.
2. L Kumari, **Sanjit Kumar**, S Chandra, G Srivastava, *Anaphora Resolution through Saliency in Magahi: A Syntactic and Semantic Analysis*, ICIMMI '24: Proceedings of the 6th International Conference on Information Management & Machine Intelligence (23 - 24 December 2024), Poornima Institute of Engineering and Technology, Sitapura, Jaipur, Rajasthan, India.
3. L Kumari, **Sanjit Kumar**, K Bhattacharjee, G Srivastava, *The Power of AI in Banking 4.0: Enhancing Customer Experience and Operational Efficiency*, ICIMMI '24: Proceedings of the 6th International Conference on Information Management & Machine Intelligence (23 - 24 December 2024), Poornima Institute of Engineering and Technology, Sitapura, Jaipur, Rajasthan, India.
4. **Sanjit Kumar**, M Agarwal, V Deshpande, *Estimation of particle Froude Number in Deposited Bed Condition using Hybrid Machine Learning Models*, ADCIS 2023 - International Conference on Advances in Data-driven Computing and Intelligent (21-23 September 2023) BITS Pilani, K K Birla Goa Campus, India.
5. **Sanjit Kumar**, M Agarwal, V Deshpande, *Predict Total Sediment Load using Standalone and Ensemble Machine Learning Models*, ADCIS 2023 - International Conference on Advances in Data-driven Computing and Intelligent (21-23 September 2023) BITS Pilani, K K Birla Goa Campus, India.
6. **Sanjit Kumar**, M Agarwal, V Deshpande, *Radial Basis Function Regression (RBFR), AR-RBFR models for estimation of Particle Froude Number in sewer pipes under deposited conditions*, ISCON 2023 - International Conference on Information Systems and Computer Networks (3-4 March 2023) GLA University, Mathura, UP, India. [Certificate](#)
7. **Sanjit Kumar**, M Agarwal, V Deshpande, MK Goyal, *Estimation of time-dependent pier scour depth using Ensemble and Boosting based Data Driven Approaches*, HYDRO 2021- International Conference on Hydraulics, Water Resources and Coastal Engineering (23-25 December 2021) SVNIT Surat. [Certificate](#)

Industrial Internship

1. Extrapolation and aesthetic evaluation of image

NIMA, GAN, Image processing, Python, PyTorch

Aug 2022 - Dec 2022

Samsung R&D Institute India-Bangalore (SRI-B)

2. Text Removal and Inpainting of scene image

CNN, GAN, Contextual Guidance, ROI, PyTorch

Dec 2022 - May 2023

Samsung R&D Institute India-Bangalore (SRI-B)

Technical Skills

- Programming Language: C, Python [PyTorch, openCV, streamLit, qt5, Scikit-learn, SciPy, Keras, Pandas]
- Web Technology: HTML, PHP
- Database System: phpMyAdmin, MySQL
- Operating System: Windows, Linux
- Tools: LaTeX, Anaconda, Microsoft Office

Positions of Responsibility

- Assistant Professor in School of Computer Science Engineering and Technology, Bennett University in Greater Noida, Uttar Pradesh (July 2025 - August 2026).
- Assistant Professor in Computational Intelligence Department, SRM Institute of Science and Technology University in Kattankulathur, Tamil Nadu (June 2024 - June 2025).
- Teaching Assistant, CSE Department, IIT Patna (Jan 2020 to Dec 2023).
- Organizing committee in *Research Scholars' Day (RSD-2021)*, IIT Patna (Mar, 2021).
- Assistant Professor in CSE Department, Parul University, Waghodia, Vadodara, Gujarat (July 2019 - Oct 2019).
- Teaching Assistant, CSE Department, NIT Agartala (July, 2017 to April, 2019).