

# Rupesh Kumar Dewang

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## PH.D. SUPERVISED

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### Ph.D. Completed/Submitted

2. KamlaKant Laxman Bawankule, "*Straggler Mitigation Approaches for Heterogeneous Hadoop Cluster*", MNNIT Allahabad, 2022. (Awarded) (SCIE:6, Conf:1)
1. Arvind Mewada, "*Unveiling the Review Spam: From Dataset Labelling to Group Spammer Detection and Review Aspect Analysis.*", MNNIT Allahabad, Sep-2023. (Awarded)(SCIE:7, Conf:2)

### Ph.D. OnGoing

2. Ayshwarya Jaiswal, "*Insider Threat Detection*", MNNIT Allahabad, 2021. (Ongoing) (SCIE:2, Conf:1)
1. Atul Kumar, "*Machine Learning in IOT*", MNNIT Allahabad, 2021. (Ongoing)(SCIE:1)

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## PUBLICATIONS

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### Patents

1. **Title of the invention : "SYSTEM AND METHOD FOR REAL-TIME ASSESSMENT AND GUIDANCE ON EXERCISE POSTURE"** , Name of Inventors: Dr. Shikha Agrawal, Dr. Jitendra Agrawal, Dr.Rupesh Kumar Dewang, Mr. Suraj Prakash Narayan and Ms. Swati Jain, Application No.201921035264 A, Date of filing of Application :02/09/2019, Publication Date : 11/10/2019 (Review Submitted).

### International Journals (Accepted/Published)

20. Atul Kumar, Rupesh Kumar Dewang , "[Comprehensive insights into healthcare IoT: the role of machine learning and deep learning approaches](#)", Multimedia Tools and Applications, 2025 (SCIE Journal, IF: 3.3)
19. Ayshwarya Jaiswal, Pragya Dwivedi, Rupesh Kumar Dewang, [Handling imbalance dataset issue in insider threat detection using machine learning methods Authors](#)", Computers and Electrical Engineering, 2024 (SCIE Journal, IF: 4.0)
18. Ayshwarya Jaiswal, Pragya Dwivedi, Rupesh Kumar Dewang, "[Machine learning approaches to detect, prevent and mitigate malicious insider threats: State-of-the-art review](#)", Multimedia Tools and Applications, 2024 (SCIE Journal, IF: 3.3)
17. Rupesh Kumar Dewang, Mahendra Pratap Yadav, Surbhit Awasthi, Om Raj, Arvind Mewada, and Kamlakant Laxman Bawankule, "[Data secure application: An application that allows developers to store user data securely using blockchain and IPFS](#)", Multimedia Tools and Applications, 2024 (SCIE Journal, IF: 3.3)

16. Arvind Mewada and Rupesh Kumar Dewang, "[CIPF: Identifying fake profiles on social media using a CNN-based communal influence propagation framework](#)", Multimedia Tools and Applications, 2024 (**SCIE Journal, IF: 3.3**)
15. Arvind Mewada and Rupesh Kumar Dewang, "[NRWalk2Vec-HIN: spammer group detection based on heterogeneous information network embedding over social media.](#)", The Journal of Supercomputing, 2023 (**SCIE Journal, IF: 3.3**)
14. Arvind Mewada and Rupesh Kumar Dewang, "[SA-ASBA: a hybrid model for aspect-based sentiment analysis using synthetic attention in pre-trained language BERT model with extreme gradient boosting.](#)", The Journal of Supercomputing (2023):1-36, (**SCIE Journal, IF: 3.3**)
13. Arvind Mewada and Rupesh Kumar Dewang, "[A comprehensive survey of various methods in opinion spam detection](#)", Multimedia Tools and Applications, 1-41, (2023) (**SCIE Journal, IF: 3.6**)
12. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[Historical data based approach to mitigate stragglers from the Reduce phase of MapReduce in a heterogeneous Hadoop cluster](#)", Cluster Computing, (**SCIE, IF=4.4**)
11. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[A classification framework for straggler mitigation and management in a heterogeneous Hadoop cluster: A state-of-art survey](#)", Journal of King Saud University-Computer and Information Sciences (2022), (**SCIE, IF=13.3**)
10. Bhaswati Barman, Rupesh Kumar Dewang, Arvind Mewada, "[Facial Recognition using Grey Wolf Optimization](#)", Materials Today: Proceedings, 202, (**Scopus index**).
9. Arvind Mewada, Rupesh Kumar Dewang, "[Research on False Review Detection Methods: A state-of-the-art review](#)", Journal of King Saud University-Computer and Information Sciences, (**SCIE, IF=13.473**)
8. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[Early straggler tasks detection by Recurrent Neural Network in a heterogeneous environment](#)", Applied Intelligence, (**SCI, IF=5.3**)
7. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[Performance Analysis of Hadoop YARN Job Schedulers in a Multi-Tenant Environment on HiBench Benchmark Suite](#)", International Journal of Distributed Systems and Technologies, 2021 (**Scopus index**)
6. Swati Jain, Suraj Prakash Narayan, Nalini Meena, Rupesh Kumar Dewang, Utkarsh Bhartiya, and Varun Kumar, Arvind Mewada, "[Event Detection through Lexical Chain Based Semantic Similarity Algorithm](#)", Materials Science and Engineering, (2021) (**Scopus index**)
5. Arvind Mewada, Rupesh Kumar Dewang, "[Deceptive Reviewer Detection by Analyzing Web Data using HMM and Similarity Measures](#)", Materials Today: Proceedings, 2021 (**Scopus index**)
4. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[Historical Data-Based Approach for Straggler Avoidance From a Heterogeneous Hadoop Cluster](#)", Journal of Ambient Intelligence & Humanized Computing, Springer Nature on 2021 (**SCIE, IF=4.9**)

3. RK Kushwaha, P Karuppanan, RK Dewang, "Design of a SIW On-chip Antenna using 0.18- $\mu$ m CMOS Process Technology at 0.4 THz", International Journal for Light and Electron Optics, 2020, 1-15. **SCIE (SCIE,IF=3.1)**
2. Rupesh Kumar Dewang and Anil Kumar Singh, "State-of- Art Approaches for Review Spammer Detection: A Survey", Journal of Intelligent Information Systems, 2017, 1-34 (**SCIE,IF=3.4**)
1. Rupesh Kumar Dewang and Anil Kumar Singh, "Spam Review Detection through Lexical Chain Based Semantic Similarity Algorithm (LCBSS) for Negative Reviews", International Journal of Engineering and Technology, Vol 8 No.6, Dec 2016-Jan 2017 (**Scopus index**)

### Book Chapters

6. Astha Singh, Rupesh Kumar Dewang, Divya Kumar, "Enhancing waste management through deep learning-based classification of plastic and non-plastic products", Artificial Intelligence and Information Technologies, (2024): 164-170.
5. Dasangam Venkat Nikhil, Rupesh Kumar Dewang, Buvaneish Sundar, Ayush Agrawal, Ananta Narayan Shrestha, Akash Tiwari, Arvind Mewada, "Predicting Native Language with Machine Learning: An Automated Approach", Artificial Intelligence Techniques in Power Systems Operations and Analysis, (2023): 195-206.
4. Dinesh Singh, Ashish Kumar Maurya, Rupesh Kumar Dewang, Niharika Keshari, "A review on Internet of Multimedia Things (IoMT) routing protocols and quality of service", Internet of Multimedia Things (IoMT), (2022): 1-29.
3. Tavishi Jain, Bhavya Singh, Rupesh Kumar Dewang (2022), "Event Detection in Live Twitter Streams Using Tf-Idf and Clustering Algorithms", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907. Springer, Singapore [https://doi.org/10.1007/978-981-19-4687-5\\_36](https://doi.org/10.1007/978-981-19-4687-5_36)
2. Tavishi Jain, Bhavya Singh, Rupesh Kumar Dewang, "Event Detection and Summarisation of Live Tweets Using SCAN Algorithms", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907. Springer, Singapore, (2022) [https://doi.org/10.1007/978-981-19-4687-5\\_37](https://doi.org/10.1007/978-981-19-4687-5_37)
1. Saloni Juneja, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Rupesh Dewang, Arvind Mewada, "Spam Review Detection Using Okapi Relevance Method for Negative Reviews", Data, Engineering and Applications., Lecture Notes in Electrical Engineering, vol 907 Springer, Singapore. [https://doi.org/10.1007/978-981-19-4687-5\\_38](https://doi.org/10.1007/978-981-19-4687-5_38)

### International Conferences

21. Arpita Santra, Vibhav Prakash Singh, Rupesh Kumar Dewang, "Content-Based Retinal Image Analysis: Exploring the Impact of Similarity Measures and Machine Learning on LTP Features", 2024 IEEE Students Conference on Engineering and Systems (SCES), , IEEE, 2024
20. Arvind Mewada, Rupesh Kumar Dewang, "SentiBERT: A Novel Approach for Fake Review Detection Incorporating Sentiment Features with Contextual Features", Fiteenth International Conference on Contemporary Computing (IC3), ACM ICPS, ISBN Number: 979-8-4007-0022-4 2023

19. Harshit Sinha, Manvendra Singh, Mayank Kumar and Neel Jaideep Pand, Rupesh Kumar Dewang, "[Comparison Based Study of UnderWater Image Enhancement Models](#)", 21st OITS International Conference on Information Technology (OCIT-2023), Communicated
18. Rupesh Kumar Dewang, Nishant Tamrakar, Arvind Mewada, "[Sentence Level Sentiment Classification using SentiWordNet and Long-Short Term Memory Model](#)", IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON), Submitted
17. Tavishi Jain, Bhavya Singh, and Rupesh Kumar Dewang, "[Event Detection in Live Twitter Streams Using Tf-Idf and Clustering Algorithms.](#)", In Data, Engineering and Applications: Select Proceedings of IDEA 2021, pp. 469-480. Singapore: Springer Nature Singapore, 2022
16. Juneja, Saloni, Shubham Goyallal, Sonali Agarwal, Saransh Agrawal, Rohit Kumar, Rupesh Dewang, and Arvind Mewada, "[Spam Review Detection Using Okapi Relevance Method for Negative Reviews.](#)", In Data, Engineering and Applications: Select Proceedings of IDEA 2021, pp. 493-504. Singapore: Springer Nature Singapore, 2022.
15. Tavishi Jain, Bhavya Singh, and Rupesh Kumar Dewang "[Event Detection and Summarisation of Live Tweets Using SCAN Algorithms.](#)", In Data, Engineering and Applications: Select Proceedings of IDEA 2021, pp. 481-492. Singapore: Springer Nature Singapore, 2022
14. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, and Arvind Mewada, "[Biased Online Media Analysis Using Machine Learning.](#)", In Proceedings of International Conference on Computational Intelligence: ICCI 2021, pp. 99-108. Singapore: Springer Nature Singapore, 2022.
13. Arvind Mewada and Rupesh Kumar Dewang, "[Convroberta: Identification of Fake Reviews Using Sequential and Weighted Non-Sequential Features in Multimodal Fusion.](#)", , Available at SSRN 4412671
12. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, Arvind Mewada, "[Biased Online Media Analysis Using Machine Learning](#)", 2nd International Conference On Computational Intelligence - ICCI 2021, Indexed in Scopus
11. Arpit Gupta, Anisha Kumari, Ritik Raj, Akanksha Gupta, Raj Nath Shah, Tanmay Jaiswal, Rupesh Kumar Dewang, Arvind Mewada, "[AutIS: Artificial Intelligent Based Automated Interviewing System](#)", 21st international conference on Hybrid Intelligent Systems (HIS-2021), Indexed in Scopus
10. Aditya Raven, Rupesh Kumar Dewang, Arvind Mewada, "[A Machine Learning-Based Privacy-Preserving Model for COVID-19 Patient using Differential Privacy](#)", 19th OITS International Conference on Information Technology (OCIT)-2021, Indexed in Scopus
9. Shrey Pandey, Yash Srivastava, Yukta Meena and Rupesh Kumar Dewang, "[CLO-TON: A GAN based approach for Clothing Try-On](#)", 8th International Conference on Signal Processing and Integrated Networks, (SPIN-2021).
8. Kamalakant Laxman Bawankule, Rupesh Kumar Dewang, Anil Kumar Singh, "[Load Balancing Approach for a MapReduce Job Running on a Heterogeneous Hadoop](#)

- Cluster”, 17th International Conference on Distributed Computing and Internet Technology (ICDCIT-2021), Published f Lecture Notes in Computer Science (LNCS)
7. Dasangam Venkat Nikhil, Rupesh Kumar Dewang, Buvaneish Sundar, Ayush Agrawal, Ananta Narayan Shrestha and Akash Tiwari, “[An Android Application for Automatic Content Summarization of News Articles Using Multilayer Perceptron](#)”, International conference on Big Data, Machine learning & Their Applications (ICBMA-2020), Published lecture Notes in Network and System, Springer.
  6. Swati Jain, Suraj Prakash Narayan, Rupesh Kumar Dewang, Utkarsh Bhartiya, Nalini Meena and Varun Kumar, “[A Machine Learning based Depression Analysis and Suicidal Ideation Detection System using Questionnaires and Twitter](#)”, Students Conference on Engineering and Systems (SCES2019), MNNIT ALLAHABAD, 06/2019, Published By IEEE
  5. Ahmed Sabeeh and Rupesh Kumar Dewang, “[Compassion, Bifurcation and Survey of Aspect Based Sentiment Analysis](#)”, 2nd International Conference on Advanced Informatics for Computing Research (ICAICR-2018), Springer CCIS series, index in Scopus, 2018
  4. Rupesh Kumar Dewang, Pushpendra Singh, and Anil Kumar Singh, “[Finding of Review Spam through Corleone, Review Genre, Writing Style and Review Text Detail Features](#)”, Proceedings of the Second International Conference on Information and Communication Technology for Competitive Strategies, ACM, 2016
  3. Alok Kumar, Dinesh Singh, Jay Ram Singh, Rupesh Kumar Dewang, “[Historical Feedback based Misbehaviour Detection \(HFMD\) Algorithm](#)”, 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Bhubaneswar, Odisha, India
  2. Jay Ram Singh, Dinesh Singh, Alok Kumar, Rupesh Kumar Dewang, “[A Single Hop Based Fast Certificate Revocation Protocol in VANET](#)”, 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Odisha, India
  1. Rupesh Kumar Dewang,, and A. K. Singh, “[Identification of Fake Reviews Using New Set of Lexical and Syntactic Features.](#)”, Proceedings of the Sixth International Conference on Computer and Communication Technology, ACM, 2015

## **LECTURES ORGANIZED/ LABS ESTABLISHED**

1. Machine Learning and Artificial Intelligence Lab