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Publications

Journal Papers

- [J1] Abhinav Kumar, Ashish Singh, and Ashish Kumar Maurya. "A Deep Hybrid Ensemble for Patient-Specific Glaucoma Detection in Digital Twin Ophthalmology". *IEEE Journal of Biomedical and Health Informatics* (2026), (**Impact Factor: 6.8**).
- [J2] Ashish Kumar, Kakali Chatterjee, Ashish Singh, and Abhinav Kumar. "A Blockchain-Assisted Holographic Counterparts for Secure Consumer Electronics in Healthcare 4.0". *IEEE Transactions on Consumer Electronics* (2026), (**Impact Factor: 10.9**).
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- [J13] Sunil Saumya, Abhinav Kumar, and Jyoti Prakash Singh. "Filtering offensive language from multilingual social media contents: A deep learning approach". *Engineering Applications of Artificial Intelligence* 133 (2024), (**Impact Factor: 8.0**).

- [J14] Santosh Kumar Sharma, Debendra Muduli, Rojalina Priyadarshini, Rakesh Ranjan Kumar, Abhinav Kumar, and Jitesh Pradhan. "An evolutionary supply chain management service model based on deep learning features for automated glaucoma detection using fundus images". *Engineering Applications of Artificial Intelligence* 128 (2024), (**Impact Factor: 8.0**).
- [J15] Ashish Singh, Muhammad Khurram Khan, and Abhinav Kumar. "Guest Editorial Advanced Learning Intelligence in Quantum-Enabled Consumer Applications". *IEEE Transactions on Consumer Electronics* 70.3 (2024), (**Impact Factor: 10.9**).
- [J16] Ashish Singh, Abhinav Kumar, and Suyel Namasudra. "DNACDS: Cloud IoT big data security and accessing scheme based on DNA cryptography". *Frontiers of Computer Science* 18.1 (2024), (**Impact Factor: 4.6**).
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- [J18] Abhinav Kumar, Sunil Saumya, and Ashish Singh. "Detecting Dravidian Offensive Posts in MIoT: A Hybrid Deep Learning Framework". *ACM Transactions on Asian and Low-Resource Language Information Processing* (2023), (**Impact Factor: 2.0**).
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- [J21] Ravishankar Mehta, Sindhuja Shukla, Jitesh Pradhan, Koushendra Kumar Singh, and Abhinav Kumar. "A vision transformer-based automated human identification using ear biometrics". *Journal of Information Security and Applications* 78 (2023), (**Impact Factor: 3.7**).
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- [J26] Abhinav Kumar, Jyoti Prakash Singh, and Amit Kumar Singh. "COVID-19 Fake News Detection Using Ensemble-Based Deep Learning Model". *IT Professional* 24.2 (2022), (**Impact Factor: 2.6**).
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- [J28] Pradeep Kumar Roy and Abhinav Kumar. "Early prediction of COVID-19 using ensemble of transfer learning". *Computers and Electrical Engineering* 101 (2022), (**Impact Factor: 4.9**).
- [J29] Soumen Roy, Jitesh Pradhan, Abhinav Kumar, Dibya Ranjan Das Adhikary, Utpal Roy, Devadatta Sinha, and Rajat Kumar Pal. "A systematic literature review on latest keystroke dynamics based models". *IEEE Access* 10 (2022), (**Impact Factor: 3.6**).
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- [C1] Shraddha Chauhan and Abhinav Kumar. "DSL NLP@NLU of Devanagari Script Languages 2025: Leveraging BERT-based Architectures for Language Identification, Hate Speech Detection and Target Classification". *Proceedings of the First Workshop on Challenges in Processing South Asian Languages (CHiPSAL 2025)*. Jan. 2025.
- [C2] Shraddha Chauhan and Abhinav Kumar. "MNLP@ DravidianLangTech 2025: A Deep Multimodal Neural Network for Hate Speech Detection in Dravidian Languages". *Proceedings of the Fifth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*. 2025.
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- [C5] Prem Shanker Dwivedi, Abhinav Kumar, and Amit Biswas. "A Quantum Computing Approach for Unmanned Aerial Vehicles Traffic Conflict Resolution". *2025 2nd International Conference on Advanced Computing and Emerging Technologies (ACET)*. 2025.
- [C6] Ranjeet Kumar, Rahul Kumar, and Abhinav Kumar. "An Empirical Evaluation of LLMs in identification of Sarcasm from Roman Code-Mixed Social Media Posts". *2nd International Conference on Artificial Intelligence and Emerging Technologies 2.0 (AISUMMIT 2025): Global AI Summit 2025 (IEEE)*. 2025.
- [C7] Vijay Kumar and Abhinav Kumar. "An Explainable Neuro-Fuzzy DeBERTa Model for Earthquake Disaster Tweet Classification". *2nd International Conference on Artificial Intelligence and Emerging Technologies 2.0 (AISUMMIT 2025): Global AI Summit 2025 (IEEE)*. 2025.
- [C8] Vijay Kumar and Abhinav Kumar. "Explainable Hybrid Transformer for Crisis Informatics: Combining Deep Contextual Embeddings with Handcrafted Cues". *2025 International Conference on Machine Learning and Data Engineering (Procedia Computer Science)*. 2025.
- [C9] Nikhil Kumar Sharma, Lalit Kumar, Abhinav Kumar, and Vijay Kumar. "Edge-Aware Convolutional Architectures for Automated Flood Damage Severity Assessment". *2025 International Conference on Machine Learning and Data Engineering (Procedia Computer Science)*. 2025.
- [C10] Durgesh Verma and Abhinav Kumar. "Multimodal Deep Learning for Detection of Hate, Humor, and Stance in Social Discourse on Marginalized Communities". *International Conference Recent Advances in Natural Language Processing (RANLP 2025)*. 2025.

- [C11] Abhay Vishwakarma and Abhinav Kumar. "MNLP@ DravidianLangTech 2025: Transformers vs. Traditional Machine Learning: Analyzing Sentiment in Tamil Social Media Posts". *Proceedings of the Fifth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*. 2025.
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- [C13] Ranjeet Kumar and Abhinav Kumar. "MSD: Multilingual Sarcasm Detection using Deep Learning-Based Model". *Forum of Information Retrieval and Evaluation FIRE-2024*. 2024.
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- [C15] Abhinav Kumar, Sunil Saumya, and Pradeep Roy. "SOA_NLP@ LT-EDI-ACL2022: An Ensemble Model for Hope Speech Detection from YouTube Comments". *Proceedings of the Second Workshop on Language Technology for Equality, Diversity and Inclusion*. 2022.
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- [C26] Abhinav Kumar, Sunil Saumya, and Jyoti Prakash Singh. "An Ensemble-Based Model for Sentiment Analysis of Dravidian Code-Mixed Social Media Posts." *FIRE (Working Notes)*. 2021.
- [C27] Gunjan Kumar, Jyoti Prakash Singh, and Abhinav Kumar. "A deep multi-modal neural network for the identification of hate speech from social media". *Conference on e-Business, e-Services and e-Society*. 2021.
- [C28] Pradeep Kumar Roy and Abhinav Kumar. "Convolutional Neural Network for Text: A Stepwise Working Guidance". 2021.
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- [C30] Jyoti Kumari and Abhinav Kumar. "Offensive Language Identification on Multilingual Code Mixing Text." *FIRE (Working Notes)*. 2021.
- [C31] Ankit Kumar Mishra, Sunil Saumya, and Abhinav Kumar. "Sentiment Analysis of Dravidian-CodeMix Language." *FIRE (Working Notes)*. 2021.
- [C32] Anu Priya and Abhinav Kumar. "Deep Ensemble Approach for COVID-19 Fake News Detection from Social Media". *2021 8th International Conference on Signal Processing and Integrated Networks (SPIN)*. 2021.

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- [C35] Sunil Saumya, Abhinav Kumar, and Jyoti Prakash Singh. "Offensive language identification in Dravidian code mixed social media text". *Proceedings of the First Workshop on Speech and Language Technologies for Dravidian Languages*. 2021.
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Book Chapters

- [BCh1] Abhinav Kumar and Amit Biswas. "Explainability and Bias in AI-Driven Medical Image Analysis: Bridging Transparency and Fairness". *Analysing Artificial Intelligence Bias in Medical Systems*. 2026. Wiley-IEEE Press, 2026.
- [BCh2] Dibya Ranjan Das Adhikary, Prabhat Dansena, Dharamveer Yadav, Abhinav Kumar, and Laxminath Tripathy. "Role of Digital Agriculture in Shaping the Future of Farming: A Social Network Analytics Approach". *Social Network Analytics: Empowering Data Engineering with Deep Learning and Large Language Models*. 2025. CRC Press, 2025.
- [BCh3] Abhinav Kumar. "Multimodal Meme Identification for Sustainable Development: Techniques, Challenges, and Societal Impact". *Multimedia and Multimodal Intelligence for Sustainable Development*. 2025. Chapman and Hall/CRC, Taylor & Francis, 2025.

- [BCh4] Vijay Kumar, Abhinav Kumar, and Pradeep Kumar Roy. "Explainable Transfer Learning Model for Disaster Damage Assessment from Social Media Images". *Social Network Analytics: Empowering Data Engineering with Deep Learning and Large Language Models*. 2025. CRC Press, 2025.
- [BCh5] Rajnish Pandey, Abhinav Kumar, and Jyoti Prakash Singh. "Sarcasm Detection in Code-Mixed Social Media Posts: A Hybrid Perspective". *Social Network Analytics: Empowering Data Engineering with Deep Learning and Large Language Models*. 2025. CRC Press, 2025.
- [BCh6] Dibya Ranjan Das Adhikary, Jitesh Pradhan, Abhinav Kumar, and Brijendra Pratap Singh. "A Multilingual Review of Hate Speech Detection in Social Media Content". *Cybercrime in Social Media: Theory and Solutions*. 2023. CRC Press, 2023.
- [BCh7] Brijendra Pratap Singh, Abhinav Kumar, Dibya Ranjan Das Adhikari, Jitesh Pradhan, Durgesh Singh, and Debahuti Mishra. "Fundamental Theories Behind the Detection of Fake News and Rumors". *Cybercrime in Social Media*. 2023. Chapman and Hall/CRC, 2023.

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- [B1] Deepak Gupta, Mayank Pandey, Abhinav Kumar, and P. N. Suganthan, eds. *Next-Generation Networks and Deployable Artificial Intelligence. Proceedings of NGNDAI 2025*. Singapore: Springer, 2025.
- [B2] Asis Kumar Tripathy, Pradeep Kumar Roy, Abhinav Kumar, and Yulei Wu, eds. *Next-Gen Social Network Analytics: Empowering Data Engineering with Deep Learning and Large Language Models*. London, UK: Taylor and Francis, 2025.

Books (Upcoming)

- [B1] Abhinav Kumar and Pradeep Kumar Roy. *Detecting Misinformation and Toxicity in Social Media: Techniques and Applications*. London, UK: IET Press, 2025.
- [B2] Pradeep Kumar Roy and Abhinav Kumar. *Introduction to Generative AI for Business Managers*. Boca Raton, USA: CRC Press, Taylor and Francis, 2025.