

Publications

Journal:

- Das, Deep, and Rahul Dixit. "Detecting audio forgery using deep learning techniques with attention mechanisms on ResNet++." *Signal, Image and Video Processing* 19, no. 11 (2025): 1-7.
- Arun, Anupama, Sanjeev Sharma, Bhupendra Singh, and Tanmoy Hazra. "Identification of Plant Species Using Convolutional Neural Network with Transfer Learning." *Journal of Phytopathology* 173, no. 1 (2025): e70032.
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- Cheniti, Mohamed, Zahid Akhtar, and Praveen Kumar Chandaliya. "Dual-Model Synergy for Fingerprint Spoof Detection Using VGG16 and ResNet50." *Journal of Imaging* 11, no. 2 (2025): 42.
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- Tiwari, Ritu, Thanga Raj Chelliah, and Venkata Dinavahi. "Detailed Modeling of a Practical 1400MW Hydropower Plant and Real-Time Hardware Emulation For Governor Tuning Application." *IEEE Transactions on Industry Applications* (2024).
- Khong, J., A. Munro, Y. Wang, R. Tiwari, L. Robinson, A. France, S. Pan, N. Thorp, E. Smith, and G. Whitfield. "Tumour and Dosimetric Parameters Associated with Radionecrosis in Ependymoma Treated with Proton Beam Therapy." *International Journal of Radiation Oncology, Biology, Physics* 121, no. 3 (2025): e3.
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- Tiwari, Ritu, Shivam Verma, Narsingh Verma, Dileep Verma, and Jagdish Narayan. "Correlation of Serum Uric Acid Levels with Certain Anthropometric Parameters in Prediabetic and Drug-naive Diabetic Subjects." *Annals of African Medicine* 23, no. 1 (2024): 13-18.
- Tandukar, R., R. Tiwari, A. Singh, G. Bhattarai, and L. Chaudhary. "Social Media Use and Its Association With Academic Performance Among School Students of Kirtipur Municipality, Kathmandu, Nepal." *J Comm Med and Pub Health Rep* 5 (2024): 12.
- Malviya, Anjali, Rahul Dixit, Anupam Shukla, and Nagendra Kushwaha. "A Novel Approach to Detection of COVID-19 and Other Respiratory Diseases Using Autoencoder and LSTM." *SN Computer Science* 6, no. 1 (2025): 1-11.
- P. Nimbhore, M. Yadav, R. Tiwari, T. Hazra, A survey of cotton crop disease detection and

classification using ORC-NET segmentation and deep learning models, *Industrial Engineering Journal*, Vol. 53, Issue 2, 2024

- P. Nimbhore, R. Tiwari, T. Hazra, M. Yadav, Classification of Cotton Crop Disease using Hybrid Model and MDfC feature extraction method, *Journal of Phytopathology*, 2024 (Accepted).
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- Subrit Dikshit, Rahul Dixit, and Abhiram Shukla. Review and analysis of state-of-the-art NLP models, *International Journal of Systems, Control and Communications*, Vol. 15, Issue pp 48-78, 2024.

❑ **Conference:**

- Todmal, Shantanu, and Tanmoy Hazra. "Text Guided Image Manipulation using LiT and StyleGAN2." 2024 IEEE 3rd International Conference on Computing and Machine Intelligence (ICMI). IEEE, 2024.
- Praveen Kumar Chandaliya, Kiran Raja, Raghavendra Ramachandra, Zhaid Akhtar, Christoph Buch, Towards Inclusive Face Recognition Through Synthetic Ethnicity Alteration, The 18th IEEE International Conference on Automatic Face and Gesture Recognition, 1-8, May 2024 Istanbul, Turkey
- S. Veerakumar, R. Dattangire, N. Funde and U. Balande, A New Hybrid RNN-LSTM Method for Predicting the Health Insurance Prices, IEEE International Conference of Emerging Technologies (INCET), Belgaum, India 2024
- Towards Explainable Ethnicity Altered Synthetic Images, Jashn Jain, Praveen Kumar Chandaliya, Tanmoy Hazra, Kishor P. Upla, Zahid Akhtar, Fifth International Conference on Innovations in Computational Intelligence and Computer Vision, June 04-06, 2025 | CNR NANOTEC, at the University of Calabria, Italy (Accepted)
- D S Panda, Ch. Reshma, Rahul Dixit, "A Robust Intelligent License Plate Recognition System for Vehicle Surveillance and Security Control", International Conference on Communication, Security, and Artificial Intelligence IEEE ICCSAI 2025. Galgotias University, Greater Noida, India.
- Rahul Dixit, Arth Agrawal, Anuja Dixit, Sweta Tripathi "Detection of Text-to-Speech and Voice Conversion Attacks Using CNN-BiLSTM Hybrid Networks", International Conference on Signal Processing, Computing and Control, ISPCC2025. Jaypee University of Information Technology (JUIT), (H.P.), Shimla .
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- Jain, Ekta, Syed Faisal Ahmed, Kshitij Yugbodh, Ritu Tiwari, Yogesh Agrawal, Neelam Muchrikar, and Vikas Shende. "A DFT study on phase transition, electronic structure, optical and electronic properties of PbTe." In AIP Conference Proceedings, vol. 3149, no. 1. AIP Publishing, 2024
- Pavone, Mario F., Mukesh Saraswat, and Ritu Tiwari, eds. Proceedings of International Conference on

Computational Intelligence: ICCI 2022. Springer Verlag, Singapore, 2024.

- Singh, Shashi Pal, Ritu Tiwari, and Sanjeev Sharma. "Comparative Analysis of algorithm for big data classification." (2024).
- Mukund K Roy, Karunesh K Arora, Praveen Kumar Chandaliya, Rohit Kumar, Pruthwik Mishra, "CDAC-SVNIT submission for IWSLT 2025 Indic track shared task", 22nd International Conference on Spoken Language Translation (IWSLT) Conference, 31st July 2025, Vienna, Austria, (Accepted)

❑ **Book:**

- T. Hazra, K. Anjaria, A. Bajpai and A. Kumari, Applications of game theory in deep learning, 1st Edition, Springer Cham, 2024

❑ **Book Chapter:**

- P. Nelapati, N. Funde , A. Viswanadapalli, K. Jain and M. Dhabu. (2024). Security Enhancement of Smart Grids Using Blockchain Technology. In Data Management and Security in Blockchain Systems, Bentham Science.