

Conference/Workshop Publications

2024

1. Kashania, M., **Rajpal, A.**, Rajpal, S., & **Kumar, N.** (2024, June). Revealing the Unseen: Explainable AI-Driven Masked Face Recognition. In *2024 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-7). IEEE. DOI: https://doi.org/10.1007/978-981-19-6406-0_25
2. Dwivedi, K., Gupta, **A.**, **Rajpal, A.**, & **Kumar, N.** (2024). Deep Learning-based NSCLC Classification from Whole-Slide Images: Leveraging Expectation-Maximization and InceptionV3. *Procedia Computer Science*, 235, DOI: [2422-2433. https://doi.org/10.1016/j.procs.2024.04.229](https://doi.org/10.1016/j.procs.2024.04.229).
3. Dhiman, S. and Thukral, A., & **Bedi, P.** (2024). Impact of Clinical Features on Disease Diagnosis Using Knowledge Graph Embedding and Machine Learning: A Detailed Analysis. In: Verma A., Verma P., Pattanaik K.K., Dhurandher S.K., & Woungang I. (Eds.), *Communications in Computer and Information Science*, (2092, pp.340-352). Springer. https://doi.org/10.1007/978-3-031-64070-4_21
4. Ningshen, N., Jindal, V., & **Bedi, P.** (2024). CGM: A hybrid model for forecasting future stock price. In Khamparia A., & Kose U. (Eds.), *International Symposium on Computing and Intelligent Systems, SCI 2024*, *CEUR Workshop Proceedings* (3682, pp. 126-137). CEUR-WS.
5. Taneja, S.B., Brahma, G.C., Bisht, S., Jindal, V., & **Bedi, P.** (2024). Comparative Analysis of PSO Techniques for Artillery Deployment in Constructive Simulation. In: Kumar S., Balachandran K., Kim J.H., & Bansal J.C., *Fourth Congress on Intelligent Systems (CIS 2023)*, *Lecture Notes in Networks and Systems* (869, pp. 347-359). Springer Science and Business Media Deutschland GmbH. http://doi.org/10.1007/978-981-99-9040-5_25
6. **Bedi, P.**, Ningshen, N., Rani, S., & Gole, P. (2024). Explainable Predictions for Brain Tumor Diagnosis Using InceptionV3 CNN Architecture. In: Hassanien A.E., Castillo O., Anand S., & Jaiswal A. (Eds.), *International Conference On Innovative Computing And Communication(ICICC 2023)*, *Lecture Notes in Networks and Systems* (731, pp. 125-134). Springer. https://doi.org/10.1007/978-981-99-4071-4_11
7. Gole, P., **Bedi, P.**, & Marwaha, S. (2024). Automatic Diagnosis of Plant Diseases via Triple Attention Embedded Vision Transformer Model. In: Hassanien A.E., Castillo O., Anand S., & Jaiswal A. (Eds.), *International Conference On Innovative Computing And Communication (ICICC 2023)*, *Lecture Notes in Networks and Systems* (731, pp. 879-889). Springer. https://doi.org/10.1007/978-981-99-4071-4_67
8. Sudipto Ghosh, Devanshu Verma, Balaji Ganesan, Purnima Bindal, **Vikas Kumar**, and **Vasudha Bhatnagar** (2024), InLegalLLaMA: Indian Legal Knowledge Enhanced Large Language Models, LKM workshop in International Joint Conference on Artificial Intelligence, 2024.
9. **Vikas Kumar**, Amisha Bharti, Devanshu Verma, and **Vasudha Bhatnagar**, Deep dive into language traits of AI-generated Abstracts, Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD) (CODS-

- COMAD '24), pp. 273-241, Association for Computing Machinery, 2024.
10. Sujit, B., **Pal, O.**, Senapati, D. & Tripathy, S. (2024) Cost-Aware Computation Offloading for Managing Cloud-Bursts in IoT-Based Cloud-Fog Networks. *1st IEEE International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU)*, pp. 1-6. DOI:10.1109/IC-CGU58078.2024.10530817.
 11. **Kumar, V.**, Bharti, A., Verma, D., & Bhatnagar, V. (2024, January). Deep dive into language traits of AI-generated Abstracts. In *Proceedings of the 7th Joint International Conference on Data Science & Management of Data (11th ACM IKDD CODS and 29th COMAD)* (pp. 237-241).
 12. Kumar, R., **Singh, K.**, Mahato, D. P., and Gupta, U. (2024). Face-based age and gender classification using deep learning model. *Procedia Computer Science*, 235:2985-2995. International Conference on Machine Learning and Data Engineering (ICMLDE 2023). <https://doi.org/10.1016/j.procs.2024.04.282>

2023

1. **Bedi, P.**, Roy, T, Arora, V., & Gole, P. (2023). Smart Contract based Skill Verification System for Recruitment. *Proceedings of International Conference on Contemporary Computing (IC3 2023)*, *ACM International Conference Proceeding Series* (2023, pp. 147-152). <https://doi.org/10.1145/3607947.3607973>
2. Taneja, S.B., Brahma, G.C., Bisht, S., Jindal, V., & **Bedi, P.** (2023). Predator-Prey PSO based Weapon deployment in Constructive Simulation. *Proceedings of International Conference on Contemporary Computing (IC3 2023)*, *ACM International Conference Proceeding Series* (2023, pp. 58-65). <https://doi.org/10.1145/3607947.3608296>
3. Kumari, T., Sharma, R., & **Bedi, P.** (2023). Siamese Bi-Directional Gated Recurrent Units Network for Generating Reciprocal Recommendations in Online Job Recommendation. In: Gupta D., Khanna A., Bhattacharyya S., Hassanien A.E., Anand S., & Jaiswal A. (Eds.), *International Conference on Innovative Computing and Communication (ICICC 2022)*, *Lecture Notes in Networks and Systems* (471, pp. 257-269). Springer. https://doi.org/10.1007/978-981-19-2535-1_20
4. K Jain, **V Bhatnagar**, S Kaur (2023), Regression Chain Model for Predicting Epidemic Variables, International Conference on Social Computing, Behavioral-Cultural Modeling,
5. K Jain, **V Bhatnagar**, S Kaur (2023), Collective Behavior in Community-Structured Network and Epidemic Dynamics, Proceedings of the International Health Informatics Conference: IHIC 2022
6. Purnima Bindal, Vikas Kumar, **Vasudha Bhatnagar**, Parikshet Sirohi, and Ashwini Siwal, Citation-Based Summarization of Landmark Judgments, International Conference on Natural Language Processing (ICON), pp. 588-593, NLP Association of India (NLP AI), 2023.
7. Kinshuk Vasisht, Balaji Ganesan, Vikas Kumar, and **Vasudha Bhatnagar**, Infusing Knowledge into Large Language Models with Contextual Prompts, International Conference on Natural Language Processing (ICON), pp. 657-662, NLP Association of India (NLP AI), 2023.

8. Kirti Jain, **Vasudha Bhatnagar**, and Sharanjit Kaur, Modeling Behavioral and Epidemic Dynamics in Social Contact Networks, IEEE ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), pp. 356-363, Association for Computing Machinery, 2023.
9. Kirti Jain, **Vasudha Bhatnagar**, and Sharanjit Kaur, Regression Chain Model for Prediction Epidemic Variables, International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS), pp. 285-294, Cham: Springer Nature Switzerland, 2023.
10. Kirti Jain, **Vasudha Bhatnagar**, and Sharanjit Kaur, Collective Behavior in Community-structured Network and Epidemic Dynamics, In: Jain, S., Groppe, S., Mihindukulasooriya, N. (eds) Proceedings of the International Health Informatics Conference (IHIC), Lecture Notes in Electrical Engineering, vol 990. Springer, Singapore, 2023.
11. Gupta, O., Agarwal, A. & **Pal, O.** (2023). Evaluation of AI Algorithms used for Non-Masked and Masked Face Recognition. *International IEEE conference on advance computing and innovative technologies in engineering (ICACITES 2023)*. Department of Computer Science & Engineering, Galgotia University, Greater Noida, India. Published/included in IEEE on 24 July 2023. DOI: 10.1109/ICACITE57410.2023.10183231.
12. Gupta, O., Agarwal, A. & **Pal, O.** (2023). A study on Evolution of Facial Recognition Technology. *International IEEE Conference on Disruptive Technologies (Icdt-2023)*, GL Bajaj Institute of Technology and Management, Greater Noida, India. published/included in IEEE on 19 June, 2023. DOI: 10.1109/ICDT57929.2023.10150876.
13. Dwivedi, R., Nand, P. & **Pal, O.** (2023). Neural Machine Translation and detailed analysis of impact of pre-processing techniques for Indian regional languages. *International IEEE conference on advance computing and innovative technologies in engineering (ICACITES 2023)*. Department of Computer Science & Engineering, Galgotia University, Greater Noida, India, published/included in IEEE on 24 July 2023. DOI: 10.1109/ICACITE57410.2023.10183148
14. Dwivedi, R., Nand, P. & **Pal, O.** (2023). Evolution of Machine Translation for Indian Regional Languages using Artificial Intelligence. *International IEEE Conference on Disruptive Technologies (Icdt-2023)*. GL Bajaj Institute of Technology and Management, Greater Noida, India, published/included in IEEE on 19 June, 2023,. DOI: 10.1109/ICDT57929.2023.10150776.
15. Vasisht, K., Ganesan, B., **Kumar, V.**, & Bhatnagar, V. (2023, December). Infusing Knowledge into Large Language Models with Contextual Prompts. In *Proceedings of the 20th International Conference on Natural Language Processing (ICON)* (pp. 657-662).
16. Bindal, P., **Kumar, V.**, Bhatnagar, V., Sirohi, P., & Siwal, A. (2023, December). Citation-Based Summarization of Landmark Judgments. In *Proceedings of the 20th International Conference on Natural Language Processing (ICON)* (pp. 588-593).
17. Gupta, S., Bhandari, A., Pratap, B., Mahato, D. P., & **Singh, K.** (2023). High utility sequence mining using cuckoo search algorithm. IET Conference Proceedings, pages 67{72(5). <https://digital-library.theiet.org/content/conferences/10.1049/icp.2023.1470>
18. Kumar, R., **Singh, K.**, and Prasad Mahato, D. (2023). Prediction of age and gender from masked face images using convolution neural network. In 2023 OITS International

2022

1. Dua, A., Jindal, V., & **Bedi, P.** (2022). DICCh-D: Detecting IPv6-based Covert Channels using DNN. In Badica C., Paprzycki M., Kharb L., & Chahal D. (Eds.), *International Conference Information, Communication & Computing Technology (ICICCT 2022), Communications in Computer and Information Science* (1670, pp. 42-53). Springer. https://doi.org/10.1007/978-3-031-20977-2_4
2. Varshney, A., Kapoor, Y., Thukral, A., Sharma, R., & **Bedi, P.** (2022). Performing Sentiment Analysis on Twitter Data using Deep Learning Models: A Comparative Study . In: Tiwari S., Trivedi M.C., Kolhe M.L., Mishra K.K., & Singh B.K. (Eds.), *International Conference on Data and Information Sciences (ICDIS 2021), Lecture Notes in Networks and Systems* (318, pp. 371-381). Springer. https://doi.org/10.1007/978-981-16-5689-7_33
3. **Bedi, P.**, Khurana, P., & and Sharma, R. (2022). Session based Recommendations using CNN-LSTM with Fuzzy Time Series. In: Dev A., Agrawal S.S., & Sharma A. (Eds.), *International Conference on Artificial Intelligence and Speech Technology (AIST 2021), Communications in Computer and Information Science*, (1546, pp. 432-446). Springer. https://doi.org/10.1007/978-3-030-95711-7_36
4. Dhiman, S. and Thukral, A. and **Bedi, P.** (2022). OHF: An Ontology based Framework for Healthcare. In: Dev A., Agrawal S.S., & Sharma A. (Eds.), *International Conference on Artificial Intelligence and Speech Technology (AIST 2021), Communications in Computer and Information Science*, (1546, pp. 318-328). Springer. https://doi.org/10.1007/978-3-030-95711-7_28
5. Divya Kwatra, K. Ramachandra Rao, and **Vasudha Bhatnagar**, Expertise Computation for Automatic Reviewer Assignment, Information Integration and Web Intelligence: 24th International Conference, iiWAS 2022, Virtual Event, November 28–30, Cham: Springer Nature Switzerland, 2022.
6. Wadhera, S., Kamra, D., **Rajpal, A.**, Jain, A., & Jain, V. (2022). In WCNC-2021: Workshop on Computer Networks & Communications (pp. 126-143). CEUR Workshop Proceedings (CEUR-WS.org). Link: http://ceur-ws.org/Vol-2889/PAPER_14.pdf
7. Priya, A., Agrawal, R. K., & **Rana, B.** (2022, December). Fusion-based multilevel thresholding for image segmentation using evolutionary algorithm. In 2022 IEEE 9th Uttar Pradesh Section international conference on electrical, electronics and computer engineering (UPCON) (pp. 1-7). IEEE.

2021

1. Kumari, T., Sharma, R., & **Bedi, P.** (2021). Multifaceted Reciprocal Recommendations for Online Dating. *Proceedings of International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2021)*. IEEE.

2. **Bedi, P. & Gole, P.** (2021). PlantGhostNet: An Efficient Novel Convolutional Neural Network Model to Identify Plant Diseases Automatically. *Proceedings of International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2021)*. IEEE.
3. Dua, A., Jindal, V., & **Bedi, P.** (2021). Covert Communication using Address Resolution Protocol Broadcast Request Messages. *Proceedings of International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2021)*. IEEE.
4. Singh Dhani, Jaspreet ; Bhatt, Ruchika ; Ganesan, Balaji ; Sirohi, Parikshet ; **Bhatnagar, Vasudha**, (2021) Similar Cases Recommendation using Legal Knowledge Graphs, KG Workshop at KDD 2021.
5. Kagita, V. R., Pujari, A. K., Padmanabhan, V., Aziz, H., & **Kumar, V.** (2021, May). Committee Selection using Attribute Approvals. In AAMAS (pp. 683-691).

2020

1. **Bedi, P.** & Dua, A. (2020). Network Steganography Using Extension Headers in IPv6. In: Badica C., Liatsis P., Kharb L., & Chahal D. (Eds.), *International Conference Information, Communication & Computing Technology (ICICCT-2020)*, *Communications in Computer and Information Science* (1170, pp. 98-110). Springer. https://doi.org/10.1007/978-981-15-9671-1_8
2. **Bedi, P.**, Gupta, N., & Jindal, V. (2020). Siam-IDS: Handling class imbalance problem in Intrusion Detection Systems using Siamese Neural Network. In: Thampi S.M., Madria S., Fernando X., Doss R., Mehta S., & Ciunzo D. (Eds.), *International Conference on Computing and Network Communications (CoCoNet 19)*, *Procedia Computer Science* (171, pp. 780-789). Elsevier. <https://doi.org/10.1016/j.procs.2020.04.085>
3. **Bedi, P.** & Dua, A. (2020). Network Steganography using the Overflow Field of Timestamp Option in an IPv4 Packet. In: Thampi S.M., Madria S., Fernando X., Doss R., Mehta S., & Ciunzo D. (Eds.), *International Conference on Computing and Network Communications (CoCoNet 19)*, *Procedia Computer Science* (171, pp. 1810-1818). Elsevier. <https://doi.org/10.1016/j.procs.2020.04.194>
4. **Bedi, P.**, Gole, P., Dhiman, S., & Gupta, N. (2020). Smart Contract based Central Sector Scheme of Scholarship for College and University Students. In: Thampi S.M., Madria S., Fernando X., Doss R., Mehta S., & Ciunzo D. (Eds.), *International Conference on Computing and Network Communications (CoCoNet 19)*, *Procedia Computer Science* (171, pp. 790-799). Elsevier. <https://doi.org/10.1016/j.procs.2020.04.086>
5. **Bedi, P.**, & Khurana, P. (2020). Sentiment analysis using fuzzy-Deep learning. In: Singh P.K., Panigrahi B.K., Suryadevara N.K., Sharma S.K., & Singh A.P. (Eds.), *International Conference on Emerging Trends in Information Technology (ICETIT 2019)*, *Lecture Notes in Electrical Engineering* (605, pp. 246-257). Springer. https://doi.org/10.1007/978-3-030-30577-2_21
6. **Bedi, P.**, Mittal, A., Gangwar, M., & Dua, A. (2020). Identifying Forged Images using Image Metadata. In: Singh P.K., Panigrahi B.K., Suryadevara N.K., Sharma S.K., & Singh A.P. (Eds.), *International Conference on Emerging Trends in Information Technology*

(ICETIT 2019), *Lecture Notes in Electrical Engineering* (605, pp. 1071-1081). Springer.
https://doi.org/10.1007/978-3-030-30577-2_94

7. Gupta, N., **Bedi, P.**, & Jindal, V. (2020). Effect of Activation Functions on the Performance of Deep Learning Algorithms for Network Intrusion Detection Systems. In: Singh P.K., Panigrahi B.K., Suryadevara N.K., Sharma S.K., & Singh A.P. (Eds.), *International Conference on Emerging Trends in Information Technology (ICETIT 2019), Lecture Notes in Electrical Engineering* (605, pp. 949-960). Springer. https://doi.org/10.1007/978-3-030-30577-2_84
8. Alka Khurana, **Vasudha Bhatnagar**, [NMF Ensembles? Not for Text Summarization!](#), In Proceedings of the First Workshop on Insights from Negative Results in NLP (Online), Association for Computational Linguistics, Nov 2020, pp 88--93.
9. Rochana Chaturvedi, Saachi, Jaspreet Singh Dhani, Anurag Joshi, Ankush Khanna, Neha Tomar, Swagata Duari, Alka Khurana and **Vasudha Bhatnagar**, [Divide and Conquer: From Complexity to Simplicity for Lay Summarization](#), In Proceedings of the First Workshop on Scholarly Document Processing (Online), Association for Computational Linguistics, Nov 2020, pp 344--355.

2019

1. Alka Khurana, **Vasudha Bhatnagar**, Extractive Document Summarization using Non-negative Matrix Factorization, In Proceedings of 30th International Conference on Database and Expert Systems Applications, DEXA 2019, Linz, Austria, August 26 - 29, 2019.
2. Swagata Duari, **Vasudha Bhatnagar**, Semi-automatic System for Title Construction, Proceedings of ICICCT-2019 (Springer CCIS), 2019.

2018

1. Gupta, N., **Bedi, P.** (2018). E-waste Management Using Blockchain based Smart Contracts. *Proceedings of International Conference on Advances in Computing, Communications and Informatics (ICACCI 2018)* (pp. 915-921). IEEE. <https://doi.org/10.1109/ICACCI.2018.8554912>
2. Singhal, A. & **Bedi, P.** (2018). Blind Quantitative Steganalysis using SVD Features. *Proceedings of International Conference on Advances in Computing, Communications and Informatics (ICACCI 2018)* (pp. 369-374). IEEE. <https://doi.org/10.1109/ICACCI.2018.8554947>
3. Sharma, C. & **Bedi, P.** (2018). Mitigating popularity bias in Twitter- Recommending novel hashtags using pooled tweets. *Proceedings of International Conference on Contemporary Computing and Informatics (IC3I)* (pp. 166-171). IEEE. <https://doi.org/10.1109/IC3I44769.2018.9007248>
4. Jindal, V., & **Bedi, P.** (2018). An improved HAPO algorithm using GPU harness (IHAPO-G) for rapid responses in VANETS. *Proceedings of International Conference on Recent*

Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE 2018) (pp. 1150-1155). IEEE. <https://doi.org/10.1109/ICRIEECE44171.2018.9009424>

5. **Bedi, P.**, Gautam, A., Bansal, S., & Bhatia, D. (2018). Weighted bipartite graph model for recommender system using entropy based similarity measure. In: Thampi S.M., James A.P., Berretti S., Mukhopadhyay J., Mitra S., Li K.-C (Eds.), *International Symposium on Intelligent Systems Technologies and Applications (ISTA 2017), Advances in Intelligent Systems and Computing* (683, pp. 163-173). Springer. https://doi.org/10.1007/978-3-319-68385-0_14