

DR. JAYTRILOK CHOUDHARY

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Qualification Details (from Graduation onwards)				
Degree	Year of Award	University	Institution	% of Marks
B.E.(IT)	2005	RGPV Bhopal	MITM Indore	74%
M.Tech. (CSE)	2009	IIT Roorkee	IIT Roorkee	8.16 CGPA
PhD(CSE)	2015	MANIT Bhopal	MANIT Bhopal	--
Experience Details				
Designation	Period		Organization	
	From	To		
Associate Professor	January 2024	Till Date	MANIT Bhopal	
Assistant Professor	June 2010	December 2023	MANIT Bhopal	
Assistant Professor	Febuary 2010	May 2010	JUIT Guna	
Senior Lecturer	September 2009	Febuary 2010	SVCE Indore	
Lecturer	January 2006	July 2007	RIT Indore	

Research Area			
Parallel processing, Data Mining, Web Mining and Information Retrieval.			
Research Projects			
Title	Sponsoring Agency	Duration	Amount
Development of Odour Based System for Real Time Measurement of Purity and Quality of Mustard Oil	National Research Development Corporation	1 Year	5.5 Lakhs
Achievements			
1. Best Faculty Award 2K16 in Bhopal by CII (Confederation of Indian Industries)			
2. GATE CSE AIR Rank 203 in 2007 and AIR Rank 242 in 2010			
Programmed Participation Details			
1. Workshop and Training Program attended	25+		
2. Expert lecture Delivered	50+		
Professional Membership			
1. IEEE 2. ACM			
Additional Responsibility			
1. Associate Dean ID & IR 2. Professor In-charge Student Welfare IIIT Bhopal 3. Coordinator of ACM ICPC 4. Member of DPPC committee 5. PG Coordinator Information Security 6. Faculty Coordinator Institute Officer's Club 7. Temporary Faculty Coordinator			

Outreach Activity
1. Coordinator of Government Achievement EXPO 2024 2. Coordinator of Empowering India 2024 3. Member of Board of Studies (BOS) JLU, Bhopal 4. External Examiner, JLU Bhopal 5. Micro observer, Election 2024(Lok Sabha) 6. Observer NTA (JEE mains, NEET, NET)
Paper Publication Details
1. International Journals
[1] Nigam, Nikhil, Dharendra Pratap Singh, Jaytrilok Choudhary, and Surendra Solanki. "PVD-GSTPS: design of an efficient parallel vehicle detection based green signal time prediction system." Discover Computing 28, no. 1 (2025): 1-32. [2] Haripriya, Rahul, Nilay Khare, Manish Pandey, Shrijal Patel, Jaytrilok Choudhary, Dharendra Pratap Singh, Surendra Solanki, and Duansh Sharma. "FWFA: Fairness-Weighted Federated Aggregation for Privacy-Aware Decision Intelligence." IEEE Access (2025). [3] Maurya, Ankita, Rahul Haripriya, Manish Pandey, Jaytrilok Choudhary, Dharendra Pratap Singh, Surendra Solanki, and Duansh Sharma. "Federated Learning for Privacy-Preserving Severity Classification in Healthcare: A Secure Edge-Aggregated Approach." IEEE Access (2025). [4] Kushwaha, Mohit, Jaytrilok Choudhary, and Dharendra Pratap Singh. "Reconstruction of a realistic 3D human model from a single 2D image." Procedia Computer Science 260 (2025): 701-707. [5] Nigam, Nikhil, Dharendra Pratap Singh, and Jaytrilok Choudhary. "Real-Time Traffic Spatial Occupancy Calculation with Modified YOLOv3 in Complex Environments." Procedia Computer Science 260 (2025): 717-724. [6] Mahor, Vinod, Jaytrilok Choudhary, and Dharendra Pratap Singh. "Analysis of Human-Based Suspicious Activity Using Bidirectional Long Sort Term Memory (Bi-LSTM)." Procedia Computer Science 260 (2025): 725-733. [7] Sinha, Rajesh Kumar, Mohit Kushwaha, Jaytrilok Choudhary, Dharendra Pratap Singh, and Manish Pandey. "The use of UAV for the Identification of Flooded and Non-Flooded Region in Post Flood Scenarios using Deep Learning Techniques." Procedia Computer Science 260 (2025): 533-539. [8] Pal, Manasi, Kushwaha, Mohit, Jaytrilok Choudhary, Manish Pandey, and Dharendra Pratap Singh. "Enhancing Forest Image Segmentation in Aerial Images using Deep Learning." Procedia Computer Science 258 (2025): 2760-2766. [9] Shakya, Vandana, Jaytrilok Choudhary, and Dharendra Pratap Singh. "Deep Learning based Intrusion Detection System for WSN." Procedia Computer Science 258 (2025): 2101-2106. [10] Kushwaha, Mohit, Jaytrilok Choudhary, and Dharendra Pratap Singh. "3DPISR: An innovative approach for pose and shape refinement in 3D human meshes from a single 2D image." Image and Vision Computing 152 (2024): 105311. [11] Vandana Shakya, Jaytrilok Choudhary, and Dharendra Pratap Singh, "IRADA: integrated reinforcement learning and deep learning algorithm for attack detection in wireless sensor networks", Multimedia Tools and Applications (2024). https://doi.org/10.1007/s11042-024-18289-7 (2024)

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- [13] Shakya, Vandana, Jaytrilok Choudhary, and Dharendra Pratap Singh. "An advanced actor critic deep reinforcement learning technique for gamification of WiFi environment." *Wireless Networks* 30, no. 9 (2024): 7239-7256.
- [14] Shakya, Vandana, Jaytrilok Choudhary, and Dharendra Pratap Singh. "IRADA: integrated reinforcement learning and deep learning algorithm for attack detection in wireless sensor networks." *Multimedia Tools and Applications* 83, no. 28 (2024): 71559-71578.
- [15] Nigam, Nikhil, Dharendra Pratap Singh, and Jaytrilok Choudhary. 2023. "A Review of Different Components of the Intelligent Traffic Management System (ITMS)" *Symmetry* 15, no. 3: 583. <https://doi.org/10.3390/sym15030583>. (2023)
- [16] Gaurav Jain, Dharendra Pratap Singh and Jaytrilok Choudhary, "Flynet–Neural Network Model for Automatic Building Detection from Satellite Images", *Journal of the Indian Society of Remote Sensing*. DOI : 10.1007/s12524-023-01703-2. (2023)
- [17] Sumit Kumar Gupta, Dharendra Pratap Singh and Jaytrilok Choudhary, "New GPU Sorting Algorithm Using Sorted Matrix", *ICMLDE*, 2022. *Procedia Computer Science*, Volume 218, 2023, Pages 1682-1691, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2023.01.146>. (2023)
- [18] Mohit Kushwaha, Jaytrilok Choudhary, Dharendra Pratap Singh, "Enhancement of human 3D pose estimation using a novel concept of depth prediction with pose alignment from a single 2D image", *Computers & Graphics*, Volume 107, 2022, Pages 172-185. <https://doi.org/10.1016/j.cag.2022.07.021>.
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- [27] Ankit Temurnikar, Pushpneel Verma and Jaytrilok Choudhary, "Vehicular Ad-hoc Network Security and Data Transmission: Survey and Discussions", *Journal of Emerging Technologies and Innovative Research (JETIR)* 2019.
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algorithms." *International Journal of Parallel Programming* 46, no. 6 (2018): 1017-1034.

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- [36] Choudhary, Jaytrilok, and Devshri Roy. "Priority Based Focused Web Crawler." *International Journal of Computer Engineering and Technology* 4, no. 4 (2013): 163-169.
- [37] Choudhary, Jaytrilok, and Devshri Roy. "An Approach to Build Ontology in Semi-Automated way." *Journal Of Information And Communication Technologies* 2, no. 5 (2012).

2. Conference Publications

- [1] Arya, Rajeshwar, Jaytrilok Choudhary, Manish Pandey, and Dharendra Pratap Singh. "Advanced Semantic Segmentation of Flooded Regions in UAV Imagery Using a Modified U-Net Model." In 2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-6. IEEE, 2025.
- [2] Pandey, Rajeev Ranjan, Dharendra Pratap Singh, Jaytrilok Choudhary, and Nikhil Nigam. "Flood Risk Assessment of Bihar State of India using Sentinel-1 on Google Earth Engine." In 2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-5. IEEE, 2025.
- [3] Nandanwar, Amit Kumar, Vinod Mahor, Jaytrilok Choudhary, Dharendra Pratap Singh, Amit Gupta, and Gagan Vishwakarma. "Fake News Detection on Social Media Platforms Using Deep Learning Hybrid CNN-BiLSTM Technique." In 2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-5. IEEE, 2025.
- [4] Ajagalla, Mahadev, Manish Pandey, Jaytrilok Choudhary, and Lalit Kumar. "Root Vegetable Crop Recommendation System Based on Soil Properties and Environmental." In Proceedings of the 5th International Conference on Data Science, Machine Learning and Applications; Volume 1: ICDSMLA 2023, 15–16 December, Hyderabad, India, vol. 1273, p. 86. Springer Nature, 2024.
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- [6] Nandanwar, Amit Kumar, Mohit Kushwaha, Kondabathula Vishwatej, Dharendra Pratap Singh, and Jaytrilok Choudhary. "Nutrition Estimation and Dietary Assessment in Indian Food through Deep Learning." In 2024 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp. 1-7. IEEE, 2024.
- [7] M. Patel, R. Patel, D. P. Singh, J. Choudhary, and N. Nigam, "Faster Mimic and Fool: An Adversarial Attack," in IEEE International Students' Conference on Electrical, Electronics and Computer Science, MANIT, Bhopal, 24 Feb, 2024, doi: 10.1109/SCEECS61402.2024.10482358
- [8] V. Shakya, J. Choudhary, and D. P. Singh, "Principal Component Analysis and Deep Learning-Based Traffic Anomaly Detection in WSN," in IEEE International Students' Conference on Electrical, Electronics and Computer Science, MANIT, Bhopal, 24 Feb, 2024, doi: 10.1109/SCEECS61402.2024.10481982.
- [9] R. K. Sinha, M. Kushwaha, J. Choudhary, D. P. Singh, and M. Pandey, "Flood Image Segmentation of UAV Aerial Images using Deep Learning," in IEEE International Students' Conference on Electrical, Electronics and Computer Science, MANIT, Bhopal, 25 Feb, 2024, doi:

10.1109/SCEECS61402.2024.10481993

- [10] M. Kushwaha, A. K. Nandanwar, A. V. Joy, J. Choudhary, and D. P. Singh, "Improved Semi Supervised Image Classification using GAN," in IEEE International Students' Conference on Electrical, Electronics and Computer Science, MANIT, Bhopal, 25 Feb, 2024, doi: 10.1109/SCEECS61402.2024.10481944.
- [11] A. K. Nandanwar, M. Kushwaha, K. Vishwatej, D. P. Singh, and J. Choudhary, "Nutrition Estimation and Dietary Assessment in Indian Food through Deep Learning," in IEEE International Students' Conference on Electrical, Electronics and Computer Science, MANIT, Bhopal, 25 Feb, 2024, doi: 10.1109/SCEECS61402.2024.10482111.
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- [13] M. U. Ashraf, J. Choudhary and D. P. Singh, "Human age prediction from bone X-ray Scan images by using advanced Deep CNN," 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), 2022, pp. 1994-1999, doi: 10.1109/ICACITE53722.2022.9823550.
- [14] R. K. Yadav, N. Nigam, D. P. Singh and J. Choudhary, "Improving Vehicle Detection using Ghost Convolution and GhostBottleneck layers in YOLOv5s," 2023 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), Greater Noida, India, 2023, pp. 322-326, doi: 10.1109/CISES58720.2023.10183551.
- [15] Gupta, S.K., Yadav, S., Singh, D.P., Choudhary, J. (2022). Local Roughness Binary Pattern for Texture Classification. In: Sharma, S., Peng, S.L., Agrawal, J., Shukla, R.K., Le, D.N. (eds) Data, Engineering and Applications. Lecture Notes in Electrical Engineering, vol 907. Springer, Singapore.
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- [24] Krishna K., Choudhary J., Singh D.P. (2021) Malicious Webpage Classification. In: Misra R., Kesswani N., Rajarajan M., Bharadwaj V., Patel A. (eds) Internet of Things and Connected Technologies. ICIoTCT 2020. Advances in Intelligent Systems and Computing, vol 1382. Springer, Cham. https://doi.org/10.1007/978-3-030-76736-5_36.

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- [28] Ankit Jaiswal, Sunny Kumar Gupta, Dharendra Pratap Singh and Jaytrilok Choudhary. "Review on COVID-19 identification using chest X-Rays". International Conference on Artificial Intelligence and Energy System. (ICAIES 2021).
- [29] Sunny Kumar Gupta, Ankit Jaiswal, Dharendra Pratap Singh, Jaytrilok Choudhary, "Deep Learning Methods to Combat COVID-19 Pandemic", International Conference on Artificial Intelligence and Energy System, (ICAIES 2021)
- [30] Sushmita Uikey, Dharendra Pratap Singh, Jaytrilok Choudhary, "A Review of Sentiment Analysis on Microblogging Data", International Conference on Artificial Intelligence and Energy System, (ICAIES 2021).
- [31] Praveen Kumar, J. Choudhary, and D. P. Singh, "A Review on Lung cancer detection with machine learning", In International Conference on Artificial Intelligence and Energy System (ICAIES-2021).
- [32] Amarja Indapwar J. Choudhary, and D. P. Singh, "Logo Detection System Using YOLO-V5 Medium", in International Conference on Artificial Intelligence and Energy System (ICAIES-2021).
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- [34] Ankit Temurnikar, Pushpneel Verma and Jaytrilok Choudhary, "A Survey: Routing Protocol Security Algorithm and Simulation in VANET", *In proceeding of International Conference on Emerging Trends in Information Technology and Data Science*, 2020.
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- [39] Naik, Rajat, Dharendra Pratap Singh, and Jaytrilok Choudhary. "A survey on comparative analysis of different ICA based face recognition technologies." In *2018 Second International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, pp. 1913-1918. IEEE, 2018.
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