

Dr. Abhishek Jain – Profile

Dr. Abhishek Jain

Assistant Professor

Department of Information Technology,
Guru Ghasidas Viswavidyalaya (Central University),
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Professional Experience:

S. No.	College	Position	Duration
1	Guru Ghasidas Viswavidyalaya (Central University), Bilaspur (C.G).	Assistant Professor	2011 to till date
2	Tata Consultancy Services	Software Engineer	2009 to 2011

Educational Qualification:

- PhD GGV Bilaspur (India)
- M.Tech MNNIT Allahabad (India).
- B.Tech NIT Raipur (India).

Field of interest:

- Digital Image Processing
- Medical Image Processing
- Biomedical Engineering
- Pattern Classification
- Machine Learning
- Deep Learning
- Artificial Intelligence

Work Assign by Management and Department

- Member of Board of Studies Committee

- Member of Physical Verification
- Techfest co-coordinator Committee
- Member for AICTE work Engineering & Technology.
- Website I/C
- library I/C
- Class I/C
- Lab I/C
- Cultural Coodinator
- NAAC Criteria 3 coordinator
- NBA Criteria 4 coordinator.

Publications Summary:

International Journal	: 27
International Conference	: 12
Books	: 01 Published, 01 In press, 01 Ongoing
Training/FDP/workshop	:30
Reviewer	: 2

Journals

1. A. Jain, R. Raja, M. Kumar, and P. K. Verma, "A novel classification of meditation techniques via optimised chi-squared 1D-CNN method based on complexity, continuity and connectivity features," *Connection Science*, Feb. 19, 2025. [Online]. Available: <https://doi.org/10.1080/09540091.2025.2467387>. ISSN: 0954-0091, eISSN: 1360-0494.
2. R. Kashyap, A. Jain, S. Ahamad, A. Soni, and N. Behar, "Generative AI-driven hyper personalized wearable healthcare devices: A new paradigm for adaptive health monitoring," *Journal of Information Technology Management*, vol. 17, Special Issue, pp. 130–154, Aug. 1, 2025. [Online]. Available: https://jitm.ut.ac.ir/article_102925.html.
3. M. Jaiswal, K. K. Nagwanshi, A. Jain, R. Kumar, S. Gaurav, Y. Watti, A. Mahto, and S. S. Thakur, "Classification of plant disease using a state-of-the art deep learning algorithm on a Tesla GPU," *International Journal of Computing*, vol. 23, no. 2, pp. 181–190, Sep. 9, 2024. [Online]. Available: <https://www.computingonline.net/computing/article/view/3542>. doi: 10.47839/ijc.23.2.3542. Print ISSN: 1727-6209, Online ISSN: 2312-5381.

4. A. Jain, R. Raja, S. Srivastava, P. C. Sharma, J. Gangrade, and M. R., "Analysis of EEG signals and data acquisition methods: A review," *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Feb. 27, 2024. [Online]. Available: <https://www.tandfonline.com/doi/full/10.1080/21681163.2024.2304574>. ISSN: 2168-1171.
5. M. Jaiswal, A. Jain, S. Ahamad, and A. P. Rawal, "An optimized CNN algorithm to diagnosing pneumonia through genetic algorithm on chest X-ray data set," *Indian Society for Technical Education*, vol. 46, no. 4, pp. 55–63, Oct.–Dec. 2023. [Online]. Available: http://www.isteonline.in/Datafiles/cms//Qtr_issue_Oct-Dec_2023_issue_for_web.pdf. ISSN: 0971-3034.
6. Ranjana Rathore, Suhel Ahamad, Aradhana Soni, Amit Kumar Dewangan & Abhishek Jain. Agriculture Field Area Calculation Using Drone Camera: Method and Framework Design. SN COMPUT. SCI. 5, 267 (2024). <https://doi.org/10.1007/s42979-023-02577-4>
7. Jain, A., & Raja, R. (2023). Automated Novel Heterogeneous Meditation Tradition Classification via Optimized Chi-Squared 1DCNN Method. *Journal of Information Technology Management*, 15(Special Issue: EIntelligent and Security for Communication, Computing Application (ISCCA-2022)), 1-22. doi: 10.22059/jitm.2023.95223
8. Mishra K, Verma SK, Ratre P, Banjare L, Jain A, Thareja S, Jain AK. In Silico Molecular Interaction Studies of Chitosan Polymer with Aromatase Inhibitor: Leads to Letrozole Nanoparticles for the Treatment of Breast Cancer. *Anticancer Agents Med Chem*. 2021;21(9):1191-1199. doi: 10.2174/1871520620666200825192652. PMID: 32842946.
9. Abhishek Jain. "Current Research of Use of Wavelet Transform in Medical Engineering." *International Journal for Scientific Research and Development* 4.7 (2016): 991-992.
10. Selection of Region of Interest for Assessment of Classification Accuracy in Remote Sensing Data. Abhishek Jain, Suneeta Agarwal and Dharmendra Singh *International Journal of Information Processing*, 4(3), 56-63, 2010 ISSN : 0973-8215
11. CONSISTENT AND SECURE MULTIMEDIA DATA TRANSFER OVER WLAN FUSED NETWORK AKANKSHA GUPTA & ABHISHEK JAIN" *International Journal*

of Computer Networking, Wireless and Mobile Communications (IJCWNMC) ISSN 2250-1568 Vol. 3, Issue 2, Jun 2013, 119-124"

12. Suitability of Sanskrit for Computer programming: A review, Oct-18, Abhishek Jain IJTIMES, e-issn 2455-2585
13. Low-Cost Modular Fast Real-Time Heart Rate Detection for Health Monitoring Jitendra Bhardwaj , Abhishek Jain , Suhel Ahamed , Chhattisgarh Journal of Science and Technology ISSN: 0973-7219, Volume 18, Issue 1, 2021, pp.- 18-24
14. Recent Application of Fourier Transform In Medical Engineering, Abhishek Jain, IJCRT, Volume 4, Issue 3 July 2016, ISSN: 2320-2882
15. A Stacked LSTM based approach for Indian Benchmarking for Index Price Prediction, Vaibhav Kant Singh, Abhishek Jain, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp 90-93
16. Quantum Machine Learning: Revolutionizing Artificial Intelligence Abhishek Jain , Suhel Ahamed, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp 97-100
17. Ranjana Rathore, Suhel Ahamed, Abhishek Jain, Aradhana Soni Crop Yield Estimation Using Image Processing Techniques: A Comprehensive Review and Analysis, Chhattisgarh Journal of Science and Technology , ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp 112-116
18. Vaibhav Kant Singh, Abhishek Jain Expert System for Solving Problem of the Mankind , Chhattisgarh Journal of Science and Technology , ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp 129-131
19. Suhel Ahamed, Abhishek Jain, Jitendra Bhardwaj O Predicting Cryptocurrency Prices Using Long ShortTerm Memory (LSTM) Recurrent Neural Networks: A Comprehensive Analysis and Implementation, Chhattisgarh Journal of Science and Technology , ISSN: 0973-7219, Volume 19, Issue 1, 2022, pp 141-146
20. Detection of Forgery if Any Present in Video Vaibhav Kant Singh, Abhishek Jain, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 2, 2022 pp 163-165

21. Epileptic Seizure Classification of EEG Signals using Statistical Features Abhishek Jain , Dr. Rohit Raja , Swapnil Dange , Amit Kumar Dewangan, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 4, 2022 pp 33-35
22. A Plant Disease Detection System using ML System CNN, Vaibhav Kant Singh, Abhishek Jain, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 4, 2022 pp 365-368
23. A Classification Report on Breast Microcalcifications Using CNN Vaibhav Kant Singh, Abhishek Jain, Chhattisgarh Journal of Science and Technology, ISSN: 0973-7219, Volume 19, Issue 3, 2022 pp 20-22
24. Ahamed, S., & Jain, A. (2018). Enhancing Career Guidance through Machine Learning-Based Chatbot: A Comparative Analysis and Development Approach. International Journal of Research and Analytical Reviews, 5. www.ijrar.org
25. Ahamed, S., & Jain, A. (2019a). Design of A Honeypot based Network Defense System to Counterattack Malwares and Botnet : A Framework Design. International Journal of Research and Analytical Reviews. www.ijrar.org
26. Ahamed, S., & Jain, A. (2019b). IoT-Based Smart Farming: Revolutionizing Agriculture Through Connected Technologies. International Journal of Research and Analytical Reviews (IJRAR) [Www.Ijrar.Org](http://www.Ijrar.Org), 839. www.ijrar.org
27. Ahamed, S., Jain, A., Ahamed, S., & Jain, A. (2018a). A Comprehensive Survey on Blockchain Technology and its Impact on Digital Currency and the Global Economy. JETIR, 5(12), 422–429. <https://www.jetir.org/view?paper=JETIR1812E79>
28. Ahamed, S., Jain, A., Ahamed, S., & Jain, A. (2018b). Assessment of cognitive competence of Driver: Real time Drowsiness detection and wakefulness support system. JETIR, 5(11), 400–409. <https://www.jetir.org/view?paper=JETIR1811d06>
29. Jain, A., Ahamed, S., Jain, A., & Ahamed, S. (2018a). Machine Learning Techniques for ECG QT Interval Calculation: A Comprehensive Review. JETIR, 5(9), 68–71. <https://www.jetir.org/view?paper=JETIR1809986>
30. Jain, A., Ahamed, S., Jain, A., & Ahamed, S. (2018b). Optimizing Feature Selection and Extraction: Genetic Algorithms in EEG Analysis for Meditation Type Classification. JETIR, 5(10), 493–497. <https://www.jetir.org/view?paper=JETIR1810B22>

31. Jain, A., Ahamed, S., Jain, A., & Ahamed, S. (2019). Feature Extraction Methods for Signal Analysis: A Comprehensive Review. JETIR, 6(1), 210–214. <https://www.jetir.org/view?paper=JETIR1901H94>
32. Jain, A., Ahamed, S., Jaiswal, M., & Singh, V. K. (2018). Automated Risk Assessment of Procainamide-Related QT Interval Prolongation using Arduino Technology. International Journal of Research and Analytical Reviews, 5(4). www.ijrar.org
33. Jain, M. A., & Ahamed, M. S. (2019). EMD-Based ECG Classification of arrhythmia: State-of-the-Art Techniques and Future Perspectives. International Journal of Research and Analytical Reviews (IJRAR) Wwww.Ijrar.Org, 857. www.ijrar.org
34. Jain, Mr. A.(2019). Design of Arduino based external impulse generator (pacemakers) for heart. JETIR, 6(5), 1300–1301. <https://www.jetir.org/view?paper=JETIR1905S94>

Conferences

1. H. Byeon, M. K. Kumar, M. M. A. Zahra, M. Soni, R. Kashyap, and A. Jain, “Graph-based deep learning for brain network analysis and connectivity mapping,” in *Proc. NetCrypt-2025, IEEE Conf. on Networking and Cryptography*, May 29–30, 2025.
2. H. Byeon, A. P. Sheetal, M. M. A. Zahra, M. Soni, R. Nair, and A. Jain, “Quantum computing approaches for high-speed visual search,” in *Proc. NetCrypt-2025, IEEE Conf. on Networking and Cryptography*, May 29–30, 2025.
3. P. Khare, R. Raja, and A. Jain, “Robust EEG classification using enhanced ensemble methods for seizure and rhythmic pattern detection,” in *Proc. NetCrypt-2025, IEEE Conf. on Networking and Cryptography*, May 29–30, 2025.
4. A. Jain, R. Raja, T. S. S. Naidu, A. Manoj, and K. Vikas, “EEG-based emotion recognition using transfer learning and deep learning,” in *Proc. 2nd Int. Multidisciplinary Conf. (IMC 2024)*, Nov. 28–29, 2024.
5. A. Jain, R. Raja, A. Vikas, K. V. Kumar, and M. K. Reddy, “Removal of ocular artifacts from EEG signals using generative adversarial network (GAN),” in *Proc. UMCCON-2024, Int. Conf. on Emerging Trends in Basic Sciences: Physical, Chemical, Biological and Environmental Sciences (IC-ETBSPCBES)*, Feb. 26–27, 2024.
6. AI for the Detection of Neurological Condition: Parkinson Disease & Emotions, 22-11-2022 “ICETIT-2022” organized by the Department of Computer Science, Indira Gandhi National Tribal University (A Central University), Amarkantak

7. Selection of Region of Interest for Assessment of Classification Accuracy in Remote Sensing Data Abhishek Jaina, Suneeta Agarwal and Dharmendra Singh, "Third International Conference on Information Processing August 7 – 9, 2009"
8. Analog computer, Abhishek Jain, international conference on bharat rejuvenation, 15 to 17 oct 2017
9. forces and solution for successful erp implementation, Abhishek Jain, chouksey national conference 26-02-2012 MANAGEMENT ENCOUNTERS NEW CHALLENGES FOR GLOBALIZATION
10. A review of methodology: cloud detection by remote sensing: poster presentation Abhishek Jain, national conference 30 31 jan 2012 FOREST ENVIRONMENT AND CLIMATE CHANGE, GGV Bilaspur.
11. Application of information measure to coding and channel theory, Abhishek Jain, chouksey national conference 12 13 sept 2013 VIMARSH
12. Improved vedio conversion algorithm using DMA, Abhishek Jain, chouksey national conference 12 13 sept 2013 VIMARSH
13. Emotion state feature extraction and classification based on eeg signals, 26-27may2023, "International Conference on “Latest Trends on Applied Science, Management, Humanities and Information Technology” Sai College) Swapnil Dange, Abhishek Jain, Kumar Amit Dewangan
14. Assessing automatic artifact rejection methods and improved ica based manual method for meditation eeg data, JNVU-ABVU-AIMT (ICIRSMT) January 5-7, 2024
15. Efficient neural solutions: slidingtcn in motor imagery eeg classification for neurological disabilities, JNVU-ABVU-AIMT (ICIRSMT) January 5-7, 2024
16. "Arduino Based Hydroxychloroquine Cardiovascular Risks Assessment In COVID19" conference in 26-27 aug AICTE Sponsored Two- day International Conference on Opportunities and Challenges of online Business- Vision 2025 ICOCOB – 2020).
17. "Satiotemporal blockchain (geoblockchain) technology to Cope up with covid-19" conference in 26-27 aug and journal print in sept 2020 AICTE Sponsored Two- day International Conference on Opportunities and Challenges of online Business- Vision 2025 ICOCOB – 2020).
18. Lightweight elliptical curve cryptography for data confidentiality with output feedback mode, conference in 26-27 aug, AICTE Sponsored Two- day International Conference on Opportunities and Challenges of online Business- Vision 2025 ICOCOB – 2020).

Books

1. Computer application in pharmacy, new age international publishers, ISBN: 9789393159250, 9393159254

Patent:

1. METHOD AND SYSTEM FOR VIDEO CONTENT FACTUAL VERIFICATION
9/23/2024 application no 202441071795

Research Guidance at M.E./ M.Tech Level:- 1**FDP/Conferences/Workshop**

1. Orientation Course, HRDC GGV, Bilaspur, 30/5/2016 to 25/6/2016
2. Refresher course in advances in engineering and technology, 5/6/17 to 24/6/17, HRDC GGV, Bilaspur
3. Refresher course in recent advances in emerging area of engineering technical education & research(interdisciplinary), 24/6/19 to 6/7/19, HRDC GGV, Bilaspur.
4. STTP in Machine Learning with Python, 21/2/22 to 25/2/22, NITTTR kolkata
5. STTP in HPC and Cloud Computing 14/03/2022 to 18/03/2022, NITTTR kolkata
6. Workshop, GGV, Bilaspur, 26 to 27Feb2016
7. Workshop in revised framework for NAAC accreditation : an awareness program, 26-11-2021, GGV, Bilaspur.
8. Workshop in NPTEL Awareness December 22, 2023, NPTEL, IIT Madras in association with Guru Ghasidas Vishwavidyalaya
9. FDP, Linux Applications in Engineering Education, 27-04-2020 to 01-05-2020, 1 week NITTTR, Chandigarh
10. FDP, Data Science using R, 11-05-2020 to 15-05-2020, 1 week, NITTTR, Chandigarh
11. FDP, Big Data Analytics, 18-05-2020 to 22-05-2020, 1 week, NITTTR, Chandigarh
12. FDP, Programming in C++ Methodologies, 20-04-2020 to 24-04-2020, 1 week, NITTTR, kolkata
13. FDP, Blockchain architecture ethereum and Hyperledger, 08-07-2020 to 12-07-2020, 1 week, KITS warangal
14. FDP, Internet of Things, 15-04-2020 to 19-04-2020, 1 week, NITTTR, Chandigarh
15. FDP, Cyber Security, 12-04-2021 to 23/04/2021, 2 week, NITTTR, Chandigarh
16. FDP, soft computing and intelligent technique in science & engineering, 30/9/16 to 4/10/16, NIT raipur
17. FDP, NITTTR Bhopal, 09-05-2016 to 20 /5/16
18. FDP, data learning and application, 27 to 31 may 2019, E&ICT academy
19. FDP, introduction to programming :a pedagogical approach 17 to 21 june 2019, E&ICT academy
20. FDP, Internet of Things, 18 to 22 june2018, Bilaspur University
21. FDP, ANN and deep learning, 11 to 15 june 2018, Bilaspur university
22. FDP, Nanotechnology enabled wireless communication and IOT, 25-04-2022 to 29-04-2022, NITTTR chandigarh(In Collaboration with GGU Bilaspur)

23. FDP, Cyber Crime and Forensic Tools, 23/05/2022 to 27/05/2022, NITTTR chandigarh(In Collaboration with Central University Bilaspur)
24. FDP, Cyber Threats and Security Measures, 25/07/2022 to 29/07/2022 (One Week) NITTTR chandigarh(In Collaboration with Central University Bilaspur)
25. FDP, Nanosensors & Devices, 22/08/2022 to 26/08/2022, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh.
26. FDP in Outcome Based Curriculum Design, 05/09/2022 to 09/09/2022, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh
27. Industrial training, Cyber Security Measures and Tools, 22-06-2020 to 03-07-2020 2 week, NITTTR, Chandigarh
28. Industrial training, 3D Printing / Additive Manufacturing, 13th March 2023 – 24th March 2023, National Institute of Electronics and Information Technology (NIELIT) Calicut

Member of Editorial Board/Reviewer:

1. Fourth International Conference on Signal and Image Processing (SIGI 2017) Geneva Switzerland 2017.
2. ICCINS 2023, 22nd and 23rd Dec 2023
3. International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS 2023) organized by Galgotias University, Greater Noida, February 24-25, 2023

Personal Profile

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