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C U R R I C U L U M V I T A E

Skills Summary

Aditya Khamparia is an eminent academician; plays versatile roles and responsibilities juggling between lectures, research, publications, consultancy, community service, PhD etc. With 8 years of rich expertise in teaching and one year in industry; he focuses on rational and practical learning. He has contributed massive literature in the fields of Educational Technologies, Intelligent Data Analysis, Nature-Inspired Computing, Machine Learning, Deep Learning and Soft Computing. He has actively been an organizing end of various reputed International conferences. He is not only backed with a strong profile but his innovative ideas, research's end-results and notion of implementation of technology in the Educational and medical field is by and large contributing to the society significantly. He has completed his Post-Doc from University of Fortaleza, Brazil in 2019. He has completed his PhD (CSE) from Lovely Professional University (LPU), M. Tech. (CSE) from Vellore Institute of Technology (VIT), B.E. (CSE) from Rajiv Gandhi Technical University and also UGC-NET and GATE qualified. He has been involved in teaching subjects like Artificial Intelligence, Machine Learning, Neural Networks, Data Structures, Soft Computing, Python Programming etc. Currently, he has published 94 Scientific research papers in reputed International Journals, Book Chapters and Conferences including 36 SCI Indexed Journals of IEEE, Elsevier, Springer and Wiley. He has been guest editor in special issues including SCOPUS Indexed Journals and Book Chapters etc. Invited as a Faculty Resource Person/Session Chair/Reviewer/TPC member in different FDP, conferences and journals and a rich experience of handling academic and administrative responsibilities like Head of the Department, Research Programme Coordinator, Examination Cell, Journal Editorial Review Board etc. His research area includes Artificial Intelligence, Intelligent Data Analysis, Educational Technologies, Machine Learning, Deep Learning, and Soft Computing. He is also associated with various professional bodies like ISTE, IAENG, IACSIT, CSI, ACM, IET, Internet Society, etc. To excel in the field of Computer Science & IT by converting his innovative ideas and acquired skills into executable education values in a highly cordial and professional environment for continuous learning and improvement.

Research Summary:

Cumulative Impact Factor (CIF): 126.87
Journal International Publication: 60 (38 papers in SCI/SCI-E/SSCI indexed journals)
Conference Publication: 28
Book Chapter Publication: 16
Edited Books Publication: 11
Patents Publication: 03

Papers Communicated: 08
Google Scholar Citations: 3082 with h-index of 26 and i-10 index of 48

Educational Qualifications

- Postdoctoral Research Fellowship (PDF) from Artificial Intelligence Research Group Lab at University of Fortaleza, Brazil in 2019.

  Title: Automatic Cervical Disease Diagnosis using Deep Learning Methods

- Ph.D. from School of Computer Science and Engineering, Lovely Professional University (LPU), Phagwara, Punjab, India in 2018.

  Thesis Title: Intelligent Computing Methods in E-learning Environment.

- MTech (CSE) from Vellore Institute of Technology, Now VIT University, Vellore, India in 2013.

  Thesis Title: Firmware Validation and Optimization for Sensor Hub.

- B.E. from Rajiv Gandhi Technical University (RGPV), Bhopal, MP, India in 2010.

Professional Membership

- Life Membership of Indian Society for Technical Education (ISTE)
- Life Membership of MSV.
- Membership of International Association of Engineers (IAENG)
- Membership of International Association of Computer Science and Information Technology (IACSIT)
- Member of Computer Society of India (CSI)
- Membership of IET
- Membership of VIBHA, VIGYAN BHARATHI
- Membership of ACM

Experience Gained

- Presently working as Assistant Professor in Babasaheb Bhimrao Ambedkar University (Central University), Satellite Centre, Amethi, UP, India, April 2021-Till Now.
- Worked as Associate Professor in Lovely Professional University (LPU), Punjab, Approved by UGC, from December 2018-March 2021.
- Worked as Assistant Professor in Lovely Professional University (LPU), Punjab, Approved by UGC, from August 2013-December 2018.
- Worked as Software Intern at Intel India, from July 2012 to June 2013.
- Delivered talk on Explainable AI for machine learning models at Ramanujan College, Delhi and University of Jammu in Data Analytics and Research from 16 Jan to 22 Jan 2022.
- Conducted one day Workshop on Artificial Intelligence at Cambridge International School, Phagwara.
- Conducted one day Workshop on Artificial Intelligence and Computer Vision at Cambridge International School, Nawanshahr Punjab.
- Conducted one day Workshop on Artificial Intelligence and Computer Vision at Blossom School, Ludhiana, Punjab.
- Expert lecture delivered on Artificial Intelligence and Computer Vision at Kamla Nehru Public School, Phagwara, Punjab.
- Expert lecture delivered on Artificial Intelligence and Computer Vision at DPS School, Jalandhar, Punjab.
- Guest Lectures in Kamla Nehru Convent College, Phagwara.
- GATE classes at GATEFORUM, Jabalpur.
- Seminars for LPU, Punjab.
- Taught underprivileged children for an educational NGO 'Mahismati Shiksha Vikas Samiti'.

Administrative Responsibilities

1. Working as Coordinator of the Department of Computer Science, BBAU Amethi (2021-Present).
2. Have worked as Head of the Department, Intelligent Systems for SCSE, LPU (2019-2021).
3. Have worked as Research Coordinator for SCSE, LPU (2016-2021).
4. Have organized FDP's at LPU.

5. Have organized seminars for B.Tech and M.Tech (CSE) students.
6. Have conducted extra lectures on soft skills and latest technologies in CSE/IT for students within department.
7. Have worked as an active member of Admission Cell, LPU, Punjab.
8. Have worked as Project Capstone Mentor at LPU and guided numerous award-winning projects at college and university level.
9. Have worked as Industrial Training coordinator.
10. Have worked as syllabus and instructional plan design coordinator for LPU, Punjab.
11. Teaching Subjects – Data Structures, Artificial Intelligence, Python Programming, ASP.NET, Soft Computing, Introduction to Programming, Machine Learning, Database Systems.
12. Have worked as core team member for the ISCA 2019 fest organized at LPU, Punjab.
13. Have worked in many college level events like Annual Day, Annual Fest, Departmental Farewell, Training and Placements, Sports Day, Blood Donation Camp at LPU.

External Funded Project

- Worked on Project as Co-Project Director for project grant of Rs. 5,25,000/- under the ICSSR **(Indian Council of Social Science Research)** Major Research Project on "**Design and Development of Adaptable E-learning System for Improving Education in Neuromuscular Disease Affected Children" with F.No.**- 02/138/2017-18/RP/Major. Project Duration (24 months) i.e. 2018-2019.
- Working on Project as Project Investigator for Project grant of Rs. 14,23,000/- under the **Young Scientist Award (SYST) Department of Science and Technology,** Project Duration (24 months) i.e. 2022-2024.
- Have submitted a project proposal titled "Multimodal image to image translation, detection and classification for conservation of Indo-Srilankan archaeological heritage" to **DST's Indo- Sri Lanka Joint Research Programme** as CO-PI. [Approval Pending]

Patent Filed

- Patent filled on **"Intelligent Blind Assisting Closet"** having Patent No. IN201811016365.
- Patent filled on **"Intelligent Deep Well Rescue System using Ultrasonic Sensors"** having Patent No. IN20194048191.
- Patent filled on **"System and Method Remotely Monitor and analyze the Progress of a Construction Project"** having Patent No. IN202021004060

Ph.D. Thesis Supervision

- RajKamal Kaur, Safety Analysis of Critical Systems, Lovely Professional University, Punjab, India **[Completed and Thesis Awarded]**
- Praveen Kr Bhanodia, Link Prediction in Social Networks, Lovely Professional University, Punjab, India. **[Completed and Thesis Awarded]**
- Sagar Pande, A Framework for Detection of DDOS attacks in Social Network. Lovely Professional University, India **[Completed and Thesis Awarded]**
- Amritpal Singh, A nature inspired hybrid approach to solve unit commitment scheduling problem, Lovely Professional University, India **[Completed and Thesis Awarded]**

M.Tech Thesis Supervision

- Parminder Kaur, Development of Liver Cancer Ontology using Ontology based Tools, 2014, Lovely Professional University, Punjab.
- Ankita Bhatia, Web based E-learning with Ontologies and HMM, 2016, Lovely Professional University, Punjab.
- Nmmita Sharma, Ontology based Product Information Retrieval System for Ecommerce Domain, 2016, Lovely Professional University, Punjab.
- Kazi Mostafizur Rahman, Classification and Improvement of E-learning Systems with Sentimental Analysis of user's review, 2017, Lovely Professional University, Punjab.
- Karan M Singh, Sound Classification using Deep learning Networks, 2018, Lovely Professional University, Punjab.
- Gurinder Saini, Disease Prediction and Classification using Deep learning networks, 2018-19, Lovely Professional University, Punjab.
- Apurva Sonavane, Dental Cavity Detection and Classification using Deep learning Networks, 2019-2021, Lovely Professional University, Punjab, India.
- Birjit Gope, A novel detection and prediction method of corona virus using deep learning, 2019-2021, Lovely Professional University, Punjab, India.

Orientation Course/Refresher/Workshop/FDP

Program	Dates	Place and Organization	Area
Orientation Program /Guru Dakshta Program	09-Aug-2021 to 09-Sep-2021	Rani Durgawati University, Jabalpur, MP, India	Computer Science
40 hour FDP on Cyber	20 Sep 2021 to 01 Oct	NIT Warangal and	Cyber Security

crime and cyber security	2021	MANUU Hydearabad, Telangana	
40 hour FDP on Data Science and Machine Learning	20 Oct 2021 to 30 Oct 2021	NIT Warangal and MANUU Hydearabad, Telangana	Machine Learning
15 Days Refresher course on E-resources and ICT	27 Jan 2022 to 10 Feb 2022	HRDC JNVU, Jodhpur, India	Multidisciplinary
One week FDP on NEP 2020, New Trends in Higher Education	26 Dec 2022 to 01 Jan 2023	Teaching Learning Centre, Ramanujan College, University of Delhi	Multidisciplinary

Research Paper Publications

International Journal Publications (2025)

1. Kumar, Ravi, Amritpal Singh, and Aditya Khamparia. "Visual Feature Refinement with MECNET for Gastrointestinal Cancer Classification." *Journal of Current Science and Technology* 15, no. 3 **(Scopus, IF = 0.6)** (2025): 126-126.
2. **Khamparia, Aditya**, and Chandan Singh. "Advanced Safety Systems: Seat Belt and Occupancy Detection using Attention Spiking Neural Networks." *International Journal on Engineering Artificial Intelligence Management, Decision Support, and Policies* 2, no. 1 (2025): 1-13.

International Journal Publications (2024)

1. Alkhonaini, Mimouna Abdullah, Alanoud Al Mazroa, Mohammed Aljebreen, Siwar Ben Haj Hassine, Randa Allafi, Ashit Kumar Dutta, Shtwai Alsubai, and **Aditya Khamparia**. "Hybrid Sine-Cosine Chimp optimization based feature selection with deep learning model for threat detection in IoT sensor networks." *Alexandria Engineering Journal* 102 **(SCI-E, IF = 6.2)**(2024): 169-178.
2. **Khamparia, Aditya**, Deepak Gupta, Mashael Maashi, and Hanan Abdullah Mengash. "Cognitive driven gait freezing phase detection and classification for neuro-rehabilitated patients using machine learning algorithms." *Journal of Neuroscience Methods* 409 (2024) **(SCI-E and Scopus, IF = 2.7)**: 110183.

3. Singh, Sanjay Kumar, Mamoon Rashid, Sultan S. Alshamrani, Mrim M. Alnfiai, Pranshu Saxena, and **Aditya Khamparia**. "Efficient Transfer Learning Approach for Acute Lymphoblastic Leukemia Diagnosis: Classification of Lymphocytes and Lymphoblastic Cells." *Traitement du Signal* 41, no. 4 (2024) **(SCI-E and Scopus, IF = 1.2)** : 1749.
4. Singh, Amritpal, **Aditya Khamparia**, and Fadi Al-Turjman. "A hybrid evolutionary approach for multi-objective unit commitment problem in power systems." *Energy Reports* 11 **(SCI-E and Scopus, IF = 6.36)** (2024): 2439-2449.

International Journal Publications (2023)

1. **Khamparia**, Aditya, Babita Pandey, Fadi Al-Turjman, and Prajoy Podder. "An intelligent IoMT enabled feature extraction method for early detection of knee arthritis." *Expert Systems* 40 **(Scopus, IF = 3)**, no. 4 (2023): e12784.
2. Pande, Sagar, **Aditya Khamparia**, and Deepak Gupta. "Feature selection and comparison of classification algorithms for wireless sensor networks." *Journal of Ambient Intelligence and Humanized Computing* 14.3 **(SCI-E , IF = 5.347)** (2023): 1977-1989.
3. Katwe, Praveen Kumar, **Aditya Khamparia**, Deepak Gupta, and Ashit Kumar Dutta. "Methodical systematic review of abstractive summarization and natural language processing models for biomedical health informatics: Approaches, metrics and challenges." *ACM Transactions on Asian and Low-Resource Language Information Processing* **(SCI-E, IF = 1.8)** (2023).
4. Madhavan, Mangena Venu, **Aditya Khamparia**, and Sagar Dhanraj Pande. "An augmented customized deep learning approach for brain tumour identification." *The Imaging Science Journal* 71.4 **(Scopus, IF = 1.1)** (2023): 331-342.
5. Sonavane, Apurva, **Aditya Khamparia**, and Deepak Gupta. "A Systematic Review on the Internet of Medical Things: Techniques, Open Issues, and Future Directions." *CMES-Computer Modeling in Engineering & Sciences* 137.2 **(SCI-E, IF= 2.5)** (2023).
6. Katoch, Kajal, Romaan Nazir, **Aditya Khamparia**, Babita Pandey, Abhijit Dey, and Devendra Kumar Pandey. "Optimization of microwave-assisted extraction of plumbagin from Plumbago zeylanica by response surface methodology and adaptive neuro-fuzzy inference system modelling." *Industrial Crops and Products* 203 **(SCI-E, IF = 6.2)** (2023): 117107.

International Journal Publications (2022) [SCI-E: 02]

1. Ashish Khanna, Poonam Rani, Puneet Garg, Prakash Kumar Singh, **Aditya Khamparia**.: "An enhanced crow search inspired feature selection technique for intrusion detection based wireless network system". In: *Wireless Personal Communications* **(SCI-E, IF= 2.01),** Vol. 127, 03, pp. 2021-2038, 2022.

2. Neha Yadav, Sagar Pande, **Aditya Khamparia**, Deepak Gupta.: "Intrusion detection system on IoT with 5G network using deep learning". In: *Wireless Communications and Mobile Computing* **(SCI-E, IF=2.14)**, 2022.

International Journal Publications (2021) [SCI: 10, SCOPUS: 2]

3. **Aditya Khamparia**, Rajat Jain, Poonam Rani, Deepak Gupta, Ashish Khanna, Oscar Castillo.: "An Adaptive Neuro Fuzzy Modelling and Prediction System for Diagnosis of Covid-19". In: *Applied and Computational Mathematics* (**SCI-E, IF=2.61**), pp, 124-139, 2021.
4. Perumalla Murali Mallikarjuna Rao, Sanjay Kumar Singh, **Aditya Khamparia**, Bharat Bhushan, Prajoy Podder.: "Multi-class Breast Cancer Classification using Ensemble of Pretrained models and Transfer Learning". In: *Current Medical Imaging* **(Bentham Science, SCI-E, IF=0.854),** 2021.
5. **A. Khamparia**, S. Bharati, P. Podder, D. Gupta, A. Khanna, T.K. Phung. "Diagnosis of breast cancer based on modern mammography using hybrid transfer learning". In: *Multidimensional Systems and Signal Processing* (**Springer, SCI-E, IF=2.03**), Vol. 32, pages 747–765, 2021.
6. Mangena Venu Madhavan, **Aditya Khamparia**, Deepak Gupta, Sagar Pande, Prayag Tiwari, M Shamim Hossain. "Res-CovNet: an internet of medical health things driven COVID-19 framework using transfer learning". In: *Neural Computing and Applications* **(Scopus, SCI-E, IF= 5.60)**, https://doi.org/10.1007/s00521-021-06171-8, 2021.
7. Chandrashekhar Azad, Bharat Bhushan, Rohit Sharma, Achyut Shankar, Krishna Kant Singh, **Aditya Khamparia**. "Prediction model using SMOTE, genetic algorithm and decision tree (PMSGD) for classification of diabetes mellitus". In: *Multimedia Systems* **(Springer, SCI-E, IF=1.93)**, https://doi.org/10.1007/s00530-021-00817-2, 2021.
8. Sagar Pande, **Aditya Khamparia**, Deepak Gupta. "An intrusion detection system for health-care system using machine and deep learning". In: *World Journal of Engineering* (**Emerald, SCOPUS),** https://doi.org/10.1108/WJE-04-2021-0204, 2021.
9. Neha Yadav, Sk Md Alfayeed, **Aditya Khamparia**, Babita Pandey, Dang N. H. Thanh, Sagar Pande. "HSV model based segmentation driven facial acne detection using deep learning". In: *Expert Systems* **(Wiley, SCI-E, IF=2.587),** https://doi.org/10.1111/exsy.12760, 2021.
10. Sukhkirandeep Kaur, Roohie Naaz Mir, **Aditya Khamparia**, Poonam Rani, Deepak Gupta, Ashish Khanna. "Heterogeneous load balancing clustering protocol for Wireless Sensor

Networks". In: *Cognitive Systems Research* **(Elsevier, SCI-E, IF=3.52),** https://doi.org/10.1016/j.cogsys.2021.07.001, 2021.

11. Rohit Bharti, **Aditya Khamparia**, Mohammad Shabaz, Gaurav Dhiman, Sagar Pande, Parneet Singh. "Prediction of Heart Disease Using a Combination of Machine Learning and Deep Learning". In: *Computational Intelligence and Neuroscience* **(Hindawi, SCI-E, IF=3.63),** https://doi.org/10.1155/2021/8387680.
12. **Aditya Khamparia**, Babita Pandey, Fadi-Al Turjman, Prajoy Podder. "An intelligent IoMT enabled feature extraction method for early detection of knee arthritis". In: *Expert Systems* **(Wiley, SCI-E, IF=2.587)**, https:// 10.1111/exsy.12784, 2021.
13. Mangena Venu Madhavan, Dang Ngoc Hoang Thanh, **Aditya Khamparia**, Sagar Pande, Rahul Malik, Deepak Gupta. "Recognition and classification of pomegranate leaves diseases by image processing and machine learning techniques". In: *CMC-Computers Materials & Continua* **(Tech Science Press, SCI-E, IF=3.772),** Vol. 66, 3, 2939-2955, 2021.
14. Aman Bhaskar, Sagar Pande, Rahul Malik, **Aditya Khamparia**. "An intelligent unsupervised technique for fraud detection in health care systems". In: *Intelligent Decision Technologies* **(IOS Press, SCOPUS),** Vol. 15,1, 127-139, 2021.

International Journal Publications (2020) [SCI: 16, SCOPUS: 4]

15. **Aditya Khamparia**, Deepak Gupta, Joel JPC Rodrigues, Victor Hugo C de Albuquerque.: "DCAVN: Cervical cancer prediction and classification using deep convolutional and variational autoencoder network". In: *Multimedia Tools and Applications* **(Springer, SCIE, IF =2.757)**, DOI: https://doi.org/10.1007/s11042-020-09607-w, pp. 1-17, 2020.
16. **Aditya Khamparia**, Deepak Gupta, Victor Hugo C de Albuquerque, Arun Kumar Sangaiah, Rutvij H. Jhaveri: "Internet of health things driven deep learning system for detection and classification of cervical cells using transfer learning". In: *Journal of Supercomputing* **(Springer, SCIE, IF=2.474),** DOI: 10.1007/s11227-020-03159-4, 2020.
17. **Aditya Khamparia***, Babita Pandey, Devendra K Pandey, Deepak Gupta, Ashish Khanna, Victor Hugo C. de Albuquerque: "Comparison of RSM, ANN and Fuzzy logic for extraction of Oleonolic acid from Ocimum Sanctum". In: *Computers in Industry* **(Elsevier, SCIE, IF=7.635),** Vol. 117, May 2020, 103200, DOI: https://doi.org/10.1016/j.compind.2020.103200, 2020.
18. Vikash Chouhan, Sanjay Kumar Singh, **Aditya Khamparia**, Deepak Gupta, Prayag Tiwari, Catarina Moreira, Robertas Damaševičius, Victor H.C. de Albuquerque, "A Novel Transfer Learning Based Approach for Pneumonia Detection in Chest X-Ray Images", 2020, *Applied Sciences (MDPI)*, *10*(2), 559, **SCI (IF 2.679).**

19. Rajkamal Kaur, Lalit Kumar Singh**, Aditya Khamparia, "**Modeling uncertainty of instrument and control system of nuclear power plant". In: *Annals of Nuclear Energy (***Elsevier, SCIE, IF=1.776),** Vol. 139, 107207, pp. 1-19, 2020.
20. Aman Singh, Jaydip Chandrakant Mehta, Divya Anand, Pinku Nath, Babita Pandey, **Aditya Khamparia***, "An intelligent hybrid approach for hepatitis disease diagnosis: Combining enhanced k-means clustering and improved ensemble learning". In: *Expert Systems: Wiley (***Wiley, SCIE, IF=2.587),** DOI: 10.1111/exsy.12526, 2020.
21. **Aditya Khamparia***, Prakash Kumar Singh, Poonam Rani, Debabrata Samanta, Ashish Khanna, Bharat Bhushan.: An internet of health things-driven deep learning framework for detection and classification of skin cancer using transfer learning, *Transactions on Emerging Telecommunications Technologies (2020), Wiley: e3963* **(Wiley, SCI, IF = 2.638)**.
22. Praveen Bhanodia, **Aditya Khamparia**, Babita Pandey.: Supervised Shift k-Means Based Machine Learning Approach for Link Prediction Using Inherent Structural Properties of Large Online Social Network, *Computational Intelligence (2020), Wiley*, DOI: 10.1111/COIN.12372 **(Wiley, SCI, IF=2.33).**
23. Amritpal Singh, **Aditya Khamparia**.: A hybrid whale optimization-differential evolution and genetic algorithm-based approach to solve unit commitment scheduling problem: WODEGA, *Sustainable Computing: Informatics and System,***(Elsevier, SCI-E: 4.02)**, Vol. 28, pp. 100442, 2020.
24. Rahul Malik, **Aditya Khamparia**, Sahil Garg, Deepak Gupta, Bong Jun Choi, M Shamim Hossain.: Reversible data hiding and smart multimedia computing using big data in remote sensing systems, **(IEEE Access, SCIE, IF:3.36**), Vol. 8, pp. 153546-153560, 2020
25. Bharat Bhushan, Chinmayee Sahoo, Preeti Sinha, **Aditya Khamparia**.: Unification of Blockchain and Internet of Things (BIoT): requirements, working model, challenges and future directions, *Wireless Networks* **(Springer, SCI-E, IF: 2.60)**, 2020.
26. Md Iman Ali, Sukhkirandeep Kaur, **Aditya Khamparia**, Deepak Gupta, Sachin Kumar, Ashish Khanna, Fadi Al-Turjman.: Security Challenges and Cyber Forensic Ecosystem in IoT Driven BYOD Environment, *IEEE Access* **(IEEE, SCI-E, IF: 3.36)**, Vol. 8, pp. 172770-172782, 2020.
27. Bharat Bhushan, **Aditya Khamparia**, K Martin Sagayam, Sudhir Kumar Sharma, Mohd Abdul Ahad, Narayan C Debnath.: Blockchain for smart cities: A review of architectures, integration trends and future research directions, *Sustainable cities and society* **(Elsevier, SCI-E, IF: 7.58),** Vol. 61, pp. 102360, 2020.
28. **Aditya Khamparia***, Sagar Pande, Deepak Gupta, Ashish Khanna, Arun Kumar Sangaiah: "Multi level framework for Anamoly detection in Social Networking". In *Library Hi-Tech* **(EMERALD, SSCI, IF=2.35), DOI:** 10.1108/LHT-01-2019-0023, 2020**.**

29. Utkarsh Agrawal, Jatin Sharma, Rahul Singh, Deepak Gupta, Ashish Khanna, **Aditya Khamparia**.: "Hybrid Wolf-Bat algorithm for optimization of connection weights in multi-layer perceptron". In: ACM Transactions on Multimedia Computing Communications and Applications (**ACM Transactions, IF= 2.25**), DOI: https://doi.org/10.1145/3350532, 2020.
30. Ranjeet Kaur, Kamaldeep Kaur, **Aditya Khamparia**, Divya Anand, "An improved and adaptive approach in ANFIS to predict KNEE Diseases", *International Journal of Health and Informatics System (IJHISI, IGI)*, **SCOPUS**, Vol. 15, Issue 2, PP. 1-16, 2020.
31. Prayag Tiwari, Hari Mohan Pandey, **Aditya Khamparia,** Sachin Kumar, "Twitter-based opinion mining for flight service utilizing machine learning", **Informatica**, Vol. 43, Issue 3, 2020 **(SCOPUS).**
32. Ashish Kumar Luhach, **Aditya Khamparia**, Ravindra Sihag, Raj Kumar, "Honey Bee Optimization based Sink Mobility Aware Heterogeneous Protocol for Wireless Sensor Network", *Scalable Computing: Practice and Experience*, Vol. 20, Issue 4, pp. 591-598, 2020 **(SCOPUS).**
33. **Aditya Khamparia**, Babita Pandey, "Performance index assessment of intelligent computing methods in e-learning systems", *International Journal of Advanced Intelligence Paradigms*, **SCOPUS** (Accepted in press), 2018, DOI: 10.1504IJAIP.2018.10016273, 2020.
34. **Aditya Khamparia**, Babita Pandey, Brijendra Pratap Mishra.: Effects of microworld game-based approach on neuromuscular disabled students learning performance in elementary basic science courses, *Education and Information Technologies*, (2020), vol 22(1) pp 337-354 , DOI: https://doi.org/10.1007/s10639-020-10142-2, **SSCI indexed, IF=2.917**) **(Springer**)ISSN 13602357, H index 23, sjr 0.53, Citation 1 (API 14) jr no 12570 publisher Chapman & Hall.

International Journal Publications (2019) [SCI: 8, SCOPUS: 2]

35. Aditya Khamparia, Deepak Gupta**,** Nguyen Gia Nhu, Ashish Khanna, Babita Shukla, Prayag Tiwari, "Sound Classification Using Convolutional Neural Network and Tensor Deep Stacking Network", *IEEE Access* Vol. 7, (1), pp. 7717-7727, 2019, **SCIE (IF 3.36).**
36. **Aditya Khamparia**, Gurinder Saini, Deepak Gupta, Ashish Khanna, Shrasti Tiwari, Victor Hugo C. de Albuquerque, "Seasonal Crops Disease Prediction and Classification using Deep Convolutional Encoder Network", *Circuits System and Signal Processing*, 2019, https://doi.org/10.1007/s00034-019-01041-0, **SCIE (IF 2.25)**.
37. **Aditya Khamparia**, Babita Pandey, Deepak Gupta, Joel J P C Rodrigues, Ashish Khanna, Prayag Tiwari, "Investigating the importance of psychological and environmental factors for improving learner's performance using Hidden Markov Model", *IEEE Access*, Vol. 7 (1), pp. 21559-21571, 2019, **SCIE (IF 3.36).**

38. Praveen Bhanodia, Babita Pandey, Devendra Kr Pandey, **Aditya Khamparia**, "A Comprehensive Survey of Link Prediction in Social Networks: Techniques, Parameters and Challenges", *Expert System with Applications,* Vol. 124, pp. 164-18, 2019, **SCI (IF 6.95)**.
39. **Aditya Khamparia**, Karan M Singh.: "A Systematic Survey on Deep Learning Architectures and Applications", Expert System, https://doi.org/10.1111/exsy.12400**, Wiley, SCIE (IF 2.587),** 2019.
40. **Aditya Khamparia**, Babita Pandey, Ashish Luhach, Aman Singh, Devendra K Pandey.: "Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks". In: *Sustainable Computing: Informatics and Computing* **(ELSEVIER, SCIE, IF = 4.07)**, https://doi.org/10.1016/j.suscom.2019.07.003, 2019.
41. **Aditya Khamparia**, Gurinder Saini, Babita Pandey, Shrasti Tiwari, Deepak Gupta, Ashish Khanna.: "KDSAE: Chronic kidney disease classification with multimedia data learning using deep stacked autoencoder network". In: *Multimedia Tools and Applications* **(SPRINGER, SCIE, IF=2.75),** https://doi.org/10.1007/s11042-019-07839-z, 2019.
42. **Aditya Khamparia**, Babita Pandey, Shrasti Tiwari, Deepak Gupta, Ashish Khanna, Joel J.P.C Rodrigues, "An integrated Hybrid CNN-RNN model for visual description and generation of captions". In: *Circuit Systems and Signal Processing* **(Springer, SCIE, IF=2.25), DOI:** https://doi.org/10.1007/s00034-019-01306-8, 2019.
43. Aditya Khamparia, Babita Pandey.: Association of Learning styles with different E-learning Problems: A Systematic Review and Classification, In: *Education and Information Technologies*, 2019, **(Springer) (SSCI, IF=2.25),** https://doi.org/10.1007/s10639-019-10028-y.
44. **Aditya Khamparia**, Sanjay Kr Singh, Ashish Kr Luhach, "SVM-PCA based integrated method for Handwriting Character Recognition", *Recent Patents in Computer Science,* Bentham Science, **SCOPUS**, 2019.

International Journal Publications (2018 and before) [SCI: 5, SCOPUS: 7]

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- Aboul Ella Hassanien, **Aditya Khamparia**, Deepak Gupta, K. Shankar, Adam Slowik (Eds), "Cognitive Internet of Medical Things for Smart Healthcare: Services and

Applications", published by Springer's Studies in Systems, Decision and Control. [ISBN: 978-3-030-55832-1], 2020.

- **Aditya Khamparia**, Ashish Khanna, Bao Le Nguyen, Nhu Gia Nguyen, "Recent Advances in Nature Inspired Optimization Algorithms, Techniques and Biomedical Applications", to be published by De-Gruyter, Germany [Published], 2021.
- Deepak Gupta, **Aditya Khamparia** (Eds), "Emerging trends and role of Fog, Edge and Pervasive Computing in Intelligent IoT driven applications", published by **IEEE Press** (Scopus Indexed) [ISBN: 978-111-96-7007-0]**, 2020.**
- Deepak Gupta, **Aditya Khamparia**, Ashish Khanna, Oscar Castillo (Eds), "Advances in Soft Computational Data Research and Fuzzy Systems", published by **Springer's Studies in Fuzziness and Soft Computing, 2022.** [Published]
- **Aditya Khamparia**, Rubaiyat Mondal, Prajoy Podder, Victor Hugo C de Albuquerque, Bharat Bhushan, Sachin Kumar, "Computational Intelligence for Managing Pandemics: Experiences from COVID-19", to be published by De-Gruyter, Germany [Published]
- Sudhir Kumar Sharma, Bharat Bhushan, Raghvendra Kumar, **Aditya Khamparia,** Narayan C Debnath, "Integration of WSNs Into Internet of Things: A Security Perspective", [CRC Press, Taylor Francis], 2021.
- Sudhir Kumar Sharma, Bharat Bhushan, **Aditya Khamparia**, Parma Nand Astya, Narayan C Debnath, "Blockchain Technology for Data Privacy Management", [CRC Press, Taylor Francis], 2021
- Deepak Gupta, Mahmoud Ragab, Romany Fouad Mansour, **Aditya Khamparia**, Ashish Khanna, "AI-Enabled 6G Networks and Applications", [John Wiley and Sons], 2023.
- **Aditya Khamparia**, Deepak Gupta, Ashish Khanna, Valentina E Balas, "Biomedical Data Analysis and Processing Using Explainable (XAI) and Responsive Artificial Intelligence (RAI)", **[Intelligent System Library, Springer]**, 2022.
- Deepak Gupta, Ashish Khanna, D Jude Hemanth, **Aditya Khamparia**, "Wearable Telemedicine Technology for the Healthcare Industry: Product Design and Development", **[Academic Press, Elsevier**], 2021.
- Gupta, Deepak, Mahmoud Ragab, Romany Fouad Mansour, **Aditya Khamparia**, and Ashish Khanna, eds. *AI-enabled 6G Networks and Applications*. Wiley, ISBN: 9781119812722, 2023.
- **Khamparia, Aditya**, Babita Pandey, Devendra Kumar Pandey, and Deepak Gupta, eds. *Microbial Data Intelligence and Computational Techniques for Sustainable Computing*. Springer, ISBN: 978-981-99-9621-6, 2024.
- Pande, Sagar Dhanraj, and **Aditya Khamparia**, eds. *Networks Attack Detection on 5G Networks Using Data Mining Techniques*. CRC Press, ISBN: 9781003470281, 2024.

- **Khamparia, Aditya**, and Deepak Gupta, eds. *Explainable Artificial Intelligence for Biomedical and Healthcare Applications*. CRC Press, ISBN: 9781003220107 2024.
- **Khamparia, Aditya**, and Deepak Gupta, eds. *Generative artificial intelligence for biomedical and smart health informatics*. John Wiley & Sons, ISBN: ISBN: 978-1-394-28071-1, 2025.
- Pandey, Babita, Devendra Pandey, **Aditya Khamparia**, Venkatesh Dutta, and Valentina E. Balas. "Artificial Intelligence in Microbial Research. ISBN: 978-981-96-3448-4, 2025"

Achievements and Professional Activities

- Outstanding Research Achievement Award from Babasaheb Bhimrao Ambedkar University in Assistant Professor Category 2022-2023, India.
- Research and Excellence Award from Babasaheb Bhimrao Ambedkar University in Assistant Professor Category 2021-2022, India.
- Best paper award, International multi track conference on science, engineering and technical Innovations, 3-4 June, 2014, CT Group of institutions, Jalandhar, Panjab, India.
- Best Researcher Award worth Rs 25,000/-2015-16, Lovely professional University
- Best Researcher Award worth Rs 30,000/-2016-17, Lovely professional University
- Best Researcher Award worth Rs 10,000/-2017-18, Lovely professional University
- Best Researcher Excellence Award worth Rs 50,000/-2018-19, Lovely professional University

- Honorary Editor of ICSES Transactions on Image Processing and Pattern Recognition (ITIPPR).

- Special Issue Editor: Recent Advancement in Information Science and Technology, SCOPUS, Bentham Science Publisher, Recent Patents on Computer Science.
- Special Issue Editor: Smart Sensors for Sustainable Internet of Everything (IoE), SCOPUS, Bentham Science Publisher, Recent trends in Engineering.
- Guest Editor, Special Issue on "Bio-Inspired Optimization Techniques for BioMedical Data Analysis" in *International Journal of Innovative Computing and Applications (IJICA), Inderscience*, Indexed in **Scopus.**
- Guest Editor, Special Issue on "Knowledge Management and Data Representation in Network Sciences" in *International Journal of Electronic Business (IJEB), Inderscience*, Indexed in **Scopus**.
- Guest Editor, Special Issue on "Emerging Advancements Using Computational Intelligence Paradigm for Cyber Physical Systems" in *Journal of Cyber-Physical Systems, Taylor & Francis*, Indexed in **Scopus**.
- Guest Editor, Special Issue on "Computational Advances in Healthcare Solutions" in *International Journal of Computer Applications in Technology (IJCAT), Inderscience*, Indexed in **Scopus, ESCI**.

- Guest Editor, special issue on "Emerging Digitalization Technologies and Future Trends for Intelligent Transportation Systems" in *International Journal of Vehicle Information and Communication Systems (IJVICS), Inderscience*, Indexed in **Scopus**.
- Organizing Secretary for ICICCR 2020 at Punjab Institute of Technology, PIT Rajpura, MRSPTU, Bathinda, Punjab, India
- Publicity Chair for Springer 4th International Conference on Innovative Computing and Communication being held at Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi on 20-21st February 2020.
- Publicity Chair Springer 1st International Conference on Data Analytics and Management (ICDAM) being held at Warsaw, Poland in association with Jan Wyzylowski University, Poland & B.M. Institute of Engineering & Technology, Haryana, India on 18-19th June 2020.
- Publication Chair of Springer 2nd International Conference on Innovative Computing and Communication at Technical University of Ostrava, Czech Republic being held on 21- 22nd March 2019.
- Publicity Chair for ICAICR 2019, Shimla, India (SPRINGER CCIS 2019).
- Organizing Committee Chair for ICICC 2020, New Delhi, India (SPRINGER AISC 2020).
- Publication Chair for ICICCR 2020, Rajpura, Punjab, India (ELSEVIER SSRN 2020).

- Special Conference Session Chair for, ICTSCI 2019, Jaipur, India (SPRINGER AISC Proceedings, SCOPUS).
- Special Conference Session Chair for Smart Computing and Information Sciences, ICAICR 2018, Shimla, India (SPRINGER CCIS Proceedings, SCOPUS).
- Special Conference Session Chair for Sustainable technologies for computational intelligence, ICTSCI 2019, Jaipur, India (SPRINGER CCIS Proceedings, SCOPUS).
- Editor of Handbook on "Hidden link prediction using stochastic social networks" of IGI Global, USA.
- Editorial board member of International Journal of Web and Semantic Technology (IJWesT), Taiwan.
- Editorial board member of International Journal of Intelligent Information Systems, USA.
- Editorial board member of International Journal of Web based learning technologies, IGI Global, USA.
- Editorial Board member of International Journal of Computer Science and Engineering Survey, AIRCC.
- Editorial Board member of ICSES, Iran.
- Technical Program Committee member for NGCT-2016, UPES Dehradun, India.
- Technical Program Committee member for ICACCE-2016, Durban, South Africa.
- Technical Program Committee member for ICICT-2016, Bangkok.
- Technical Program Committee member for IoT4TD-2017, Ahmedabad, India.
- Technical Program Committee member for IC4S-2017, Thailand.
- Technical Program Committee member for CSICT-2017, China.
- Technical Program Committee member for ICSICCS-2017, India.
- Reviewer of International Journal of Information Processing Systems, Korea, Japan (SCOPUS).
- Reviewer of Journal of Computers in Education (Springer).
- Reviewer of Expert System with Applications (Elsevier).
- Reviewer of Soft Computing (Elsevier).
- Reviewer of Expert System (Wiley).
- Reviewer of International Journal of Advanced Intelligence Paradigms (Inderscience Publishers)
- Reviewer of International Journal of E-health and Medical Communications, IGI Global.
- Reviewer of International Journal of Web based learning and teaching technologies, IGI, USA.
- Reviewer of International Journal of Health and Informatics System, IGI Global.
- Reviewer of Science China Informatics Sciences, China (SCI, SCOPUS).

- Reviewer of Journal of Engineering Science and Technology, Taylors University, Malaysia (SCOPUS).
- Reviewer of Journal of Computer Science, SCI Publishing Group.
- Reviewer of International Journal of Knowledge Engineering and Soft Data Paradigm (Inderscience)
- Reviewer of Expert system, Taylor and francis.
- Reviewer of International Journal of Healthcare Information Systems and Informatics, IGI global.
- TPC member of 2nd International Conference on "Next Generation Computing Technologies" (NGCT-2016),14-16 October, 2016, Center for Information Technology University of Petroleum & Energy Studies Bidholi Campus, Via-Prem Nagar, Dehradun Uttarakhand (INDIA).
- TPC member of third Springer International Conference on Computer & Communication Technologies (IC3T 2016), 28-29 Oct, 2016 in Vijayawada, Andhra Pradesh, India.
- TPC member of International Conference on Social Science, Public Health and Education, March 4 - 5, 2017 in Guangzhou, China.
- TPC member of International Academic Conference on Computer, Networks and Communication Technology(CNCT2016), December 16th-18th, 2016, Xiamen, China
- Program Committee member of International Conference on Advanced Technologies Enhancing Education, March 18th-20th, 2017,100 Huoju Road, Hi-tech Zone, Qingdao, Shandong Sheng, China.
- Program Committee member and hold Special Session of International Conference on Advanced Informatics Research, July 14th-15th, 2018, Hotel Deventure Shimla, India.

Major Projects

- **Title: Smart Wardrobe:** System able to suggest to individuals about various combinations of attires and notify about the cleanliness of attires kept in shelf; **Team Size** – 4, **Duration**- 4 months, **IOT.**
- **Title: Intelligent Educational Game:** AI based game which facilitates student to deliver content according to their preferences; **Team size** – 3; **Duration**- 4 months; **Software** – 3D Unity, Game Maker.
- **Title :** A safe and precise procedure to identify poisonous elements in air/water effluents from distributed source in Vellore region using fuzzy logic; **Team size -** 2; **Duration- 5** months**; Software -** MATLAB, Java, SQL.
- **Title:** Firmware based code optimization and development for integrated sensor hub; **Team size :**1; **Duration :**10 months; **Software :** VNC viewer, pintools, C#.Net.
- **Title:** Image compression using EZWT algorithm; **Team size**: 2; **Duration:** 3 months; **Software:** MATLAB, C, Java.

- **Title:** Concurrency based code optimization for multicore architecture; **Team size**: 2; **Duration:** 4 months; **Software**: C, Linuxtool.
- **Title:** Vehicle monitoring and management based system; **Team size:** 1; **Duration**: 2 months; **Software:** Visual basic, SQL, Java.

Research Interest/ Area

- Artificial Intelligence
- Educational Technologies
- Machine Learning
- Deep Learning
- Soft Computing
- Intelligent Data Analysis

Five Year Future Plans

- I will develop new pedagogy for learning of students utilizing machine learning and augmented reality techniques.
- Write a Young Scientist project proposal on Education for a DST grant.
- Write books on machine learning in medical which is useful for researcher's and PG course in MTech.
- File patent on game-based learning

Personal Details

Name	**: -**	**Aditya Khamparia**
Father's Name	: -	Sh. K.K Khamparia
Date of Birth	: -	28th August 1988
Sex	: -	Male
Marital Status	: -	Married
Language known	: -	English, Hindi
Place	: -	Jabalpur

References

- *Dr. Babita Pandey, Associate Professor, Babasaheb Bhimrao Ambedkar University, UP, India, E-mail: shukla_babita@yahoo.co.in; +91-9872831494.*
- *Dr. Deepak Gupta*, *Associate Professor, SCSE, MAIT*, New Delhi India. Email: deepakgupta@mait.ac.in
- *Dr. Devendra K Pandey, Associate Professor, Lovely Professional University, India ,* E-mail: dkpandey1974@yahoo.co.in; +91-9779683414.
- *Dr. Ashish Khanna, Assistant Professor, SCSE, MAIT, New Delhi, India, Email: ashishkhanna@mait.ac.in.*
- *Dr. N Jaisankar, Professor, VIT Vellore, India, Email: njaisankar@vit.ac.in*

- *Dr Victor Hugo C. de Albuquerque, Professor, University of Fortaleza, Brazil, Email: victor120585@yahoo.com.br*

Date:

(ADITYA KHAMPARIA)