

**DR. ADITYA KHAMPARIA**

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CURRICULUM VITAE

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 73 Scientific research papers in reputed International Journals, Book Chapters and Conferences including 26 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): 79.87

Journal International Publication: 40 (26 papers in SCI/SCI-E/SSCI indexed journals)

Conference Publication: 24

Book Chapter Publication: 07

Edited Books Publication: 06

Patents Publication: 03

Papers Communicated: 08

Google Scholar Citation: 596 with h-index of 13 and i-10 index of 21

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 Internet Society
- Membership of ACM

Experience Gained

- Presently working as Associate Professor in Lovely Professional University, Punjab, Jan 2019-Till Now.
- 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.
- 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. Have Working as Head of the Department, Intelligent Systems for SCSE, LPU, Since 2019.
2. Have working as Research Coordinator for SCSE, LPU, Since 2016.
3. Have organized FDP's at LPU.
4. Have organized seminars for B.Tech and M.Tech (CSE) students.
5. Have conducted extra lectures on soft skills and latest technologies in CSE/IT for students within department.
6. Have worked as an active member of Admission Cell, LPU, Punjab.
7. Have worked as Project Capstone Mentor at LPU and guided numerous award-winning projects at college and university level.

8. Have worked as Industrial Training coordinator.
9. Have worked as syllabus and instructional plan design coordinator for LPU, Punjab.
10. Teaching Subjects – Data Structures, Artificial Intelligence, Python Programming, ASP.NET, Soft Computing, Introduction to Programming, Machine Learning, Database Systems.
11. Have worked as core team member for the ISCA 2019 fest organized at LPU, Punjab.
12. 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 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.
- 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. [**Thesis Submitted, Final Viva Pending**]
- Sagar Pande, A Framework for Detection of DDOS attacks in Social Network. Lovely Professional University, India [**Ongoing**]
- Amritpal Singh, A nature inspired hybrid approach to solve unit commitment scheduling problem, Lovely Professional University, India [**Ongoing**]

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.

Research Paper Publications

International Journal Publications (2020) [SCI: 15, SCOPUS: 5]

1. **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 =2.69**), DOI: <https://doi.org/10.1007/s11042-020-09607-w>, pp. 1-17, 2020.
2. **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=2.25**), DOI: [10.1007/s11227-020-03159-4](https://doi.org/10.1007/s11227-020-03159-4), 2020.
3. **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=4.76**), Vol. 117, May 2020, 103200, DOI: <https://doi.org/10.1016/j.compind.2020.103200>, 2020.

4. 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 2.21)**.
5. 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=1.6)*, Vol. 139, 107207, pp. 1-19, 2020.
6. 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=1.7)*, DOI: 10.1111/exsy.12526, 2020.
7. **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 = 1.8**).
8. 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=1.2**).
9. 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: 2.72**), Vol. 28, pp. 100442, 2020.
10. 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:3.06**), Vol. 8, pp. 153546-153560, 2020
11. 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: 2.65)*, 2020.
12. 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: 3.06)*, Vol. 8, pp. 172770-172782, 2020.
13. 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: 5.67)*, Vol. 61, pp. 102360, 2020.

14. **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, SCIE, IF=1.2), DOI: 10.1108/LHT-01-2019-0023, 2020.
15. 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.
16. 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.
17. 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).
18. 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).
19. **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: 10.1504/IJAIP.2018.10016273, 2020.
20. **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>, Scopus indexed) (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]

21. **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 4.09).
22. **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 1.99).

23. **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 4.09)**.
24. 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 4.29)**.
25. **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 1.5)**, 2019.
26. **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 = 1.8)*, <https://doi.org/10.1016/j.suscom.2019.07.003>, 2019.
27. **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=2.01)*, <https://doi.org/10.1007/s11042-019-07839-z>, 2019.
28. **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=1.99)*, DOI: <https://doi.org/10.1007/s00034-019-01306-8>, 2019.
29. 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**), <https://doi.org/10.1007/s10639-019-10028-y>.
30. **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: 3, SCOPUS: 9]

31. **Aditya Khamparia**, Aman Singh, Divya Anand, Deepak Gupta, Ashish Khanna, Arun Kumar N, Joseph Tan, “A Novel deep learning based multi-model ensemble methods for prediction of neuromuscular disorders”, *Neural Computing and Applications*, 2018, <https://doi.org/10.1007/s00521-018-3896-0>, **SCIE (IF 4.6)**.
32. **Aditya Khamparia** and Babita Pandey, “Effects of Visual Map Embedded Approach on Students Learning Performance using Briggs-Myers Learning Style in Word Puzzle Gaming

- Course”, *Computers and Electrical Engineering*, 5 Jan 2018 Online DOI: 10.1016/j.compeleceng.2017.12.041. **(IF = 2.1) Elsevier (SCI indexed)**.
33. **Aditya Khamparia**, Babita Pandey, “Threat Driven Modeling Framework Using Petri Nets for e learning System”. In: *SpringerPlus* (2016) 5: 446 pp 2-16. Impact factor **0.982 (SCI indexed)**. ISSN: 2193-1801 H index 13 sjr 0.39 (API 17.5) jr no 33653.
 34. **Aditya Khamparia**, Babita Pandey.: Effects of Visual Mapping placed game based learning on students learning performance in defense based courses, *Int. J. Technology Enhanced Learning*, Vol. 9, No. 1, 2017 35-49. Inderscience Publishe,(H-index: 17, SJR: 0.81) [Scopus (Elsevier) Indexed]. ISSN 17535255 Jr no 7664.
 35. **Aditya Khamparia**, Babita Pandey, Comprehensive analysis of Semantic web reasoners and tool: A survey, *Education and Information technologies*, **Springer**, pp 1–25 2017. ISSN: 1573-7608 (Online) H index 23, sjr 0.53, DOI: 10.1007/s10639-017-9574-5 (API 14) jr no 12570.
 36. **Aditya Khamparia**, Babita Pandey, A Novel Method of Case Representation and Retrieval in CBR for e learning, *Education and Information Technologies*, (2015), vol 22(1) pp 337-354 , DOI: 10.1007/s10639-015-9447-8 **Scopus indexed) (Springer)**ISSN 13602357, H index 23, sjr 0.53, Citation 1 (API 14) jr no 12570 publisher Chapman & Hall.
 37. **Aditya Khamparia**, Babita Pandey, “Knowledge and Intelligent Computing Methods in E learning”, *International Journal of Technology Enhanced Learning (Inderscience)*, Vol. 7(3), pp 221-242, 2015. Print ISSN: 1753-5255 **Scopus Indexed** H index 11 sjr 0.81 (API 14)jr no 7664.
 38. **Aditya Khamparia**, Babita Pandey SVM and PCA based Learning Feature Classification Approaches for E-Learning System, *International Journal of Web-Based Learning and Teaching Technologies (IJWLTT)*, IGI Global, USA, **SCOPUS**, 2018, Vol. 8, issue 3, 2018.
 39. **Aditya Khamparia**, Babita Pandey, “A Novel Integrated Principal Component Analysis and Support vector Machines based diagnostic system for detection of Chronic Kidney disease”, *International Journal of Data Analysis Techniques and Strategies*, **SCOPUS** (Accepted in press), 2018.
 40. **A Khamparia**, Babita Pandey, Architecture based Comparison of Semantic Web Service Composition Processes, *International Journal of Computer Applications* (0975 – 8887) Volume 98– No.2 , 2014, 15-20. Citation 2 (API 10.5)
 41. **Aditya Khamparia**, Babita Pandey, Vikas Pardesi, Narendra Kumar Bagde, An Efficient Approach to detect Object, Edge and Colour Palette Recognition for surveillance Based Application, *Journal of Computing Trenz*, Vol III, No. 2, July 2013pp 18-25. (ISSN 2230-9152) API 4.5

42. **Aditya Khamparia**, Babita Pandey, Adaptive E-Learning Based Uduu System For Object Oriented Programming, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.2 (2015) pp. 1439-1442 (Scopus indexed) H index 9, sjr 0.13 (API 10.5)
43. Babita Pandey, **Aditya Khamparia**, Raman, Performance Analysis of Adaptive Intelligent Tutoring System, International Journal of Applied Engineering Research, vol. 10, Issue 69, 2015, pp.223-236 (**Scopus** indexed) H index 9, sjr 0.13, ISSN 0973-4562 (API 10.5).
44. **Aditya Khamparia**, Babita Pandey.: Performance analysis of SPARQL and DL-Query on Electromyography ontology. In: Indian Journal of Science and Technology, Vol. 8, Issue (17), pp 2-7, 2015. (Scopus and Thomson Reuters indexed, h-index: 18, SJR1.3), ISSN 09746846, 09745645 Citation 8 (API 10.5).
45. Babita Pandey, **Aditya Khamparia** and Sandeep Rani, EEG ontology based performance analysis using SPARQL, International Journal of Control Theory and Application, 9(10) 2016, pp. 293-303. *Scopus Indexed*, , ISSN 09745572, H index 9, sjr 0.53 (API 10.5)
46. Babita Pandey, **Aditya Khamparia**, A QoS and Cognitive Parameters based Uncertainty Model for Selection of Semantic Web Services, Indian Journal of Science and Technology, Vol 9(44), 2016, pp 2-7. *Scopus Indexed*, H index 22, sjr 0.27, ISSN 09746846, 09745645 (API 10.5).

International Conference

1. Dang NH Thanh, Nguyen Ngoc Hien, VB Surya Prasath, Uğur Erkan, **Aditya Khamparia**, “Adaptive Thresholding Skin Lesion Segmentation with Gabor Filters and Principal Component Analysis”, *Intelligent Computing in Engineering*, pp. 811-820, Singapore, *Springer*, 2020.
2. **Aditya Khamparia**, Babita Pandey, Aman Singh, Shrasti Tiwari, Parampreet Kaur, “An adaptive web based educational system using HMM approach for C programming”, ICAICR 2018, Shimla, India, 2018.
3. Parampreet Kaur, Rajeev Sobti, **Aditya Khamparia**, “Simulation and Deep CNN based architecture for validation of Intelligent automotive functions”, ICACCI 2018, Bangalore India, 2018, doi: 10.1109/ICACCI.2018.8554611.
4. Babita Pandey and **Aditya Khamparia**, A review on semantic web services process, International Conference on Computing Sciences- ‘WILKES 100-2013, 15-16 Nov, 2016, LPU.
5. **Aditya Khamparia** and Babita Pandey, An ontology driven multi agent approach Diabetes management, International multi track conference on science, engineering and technical innovations, 3-4 June, 2014, CT Group of institutions, Jalandhar, Panjab, India (**Best Paper award**).

6. **Aditya Khamparia**, Babita Pandey, Parampreet Kaur, Shrasti Tiwari. E-Knowledge Analyzing with Java Ontology, In: 2018 *IEEE 6th International Conference on MOOCs, Innovation and Technology in Education (MITE)*, Pages 60-68, IEEE, Hyderabad, India, 2018.
7. Babita Pandey, R. B. Mishra and **Aditya Khamparia**, CBR Based Approach for Adaptive Learning in E-Learning System, IEEE International Conference on Asia-Pacific World Congress on Computer Science and Engineering (APWC), 4-5 Nov, 2014, pp. 1-6, The University of Fiji, Fiji, DOI: [10.1109/APWCCSE.2014.7053877](https://doi.org/10.1109/APWCCSE.2014.7053877)
8. **Aditya Khamparia**, Babita Pandey, Showkat Nazir Lone.: Minimax (Maximin) with special approach of Gamification in higher education. In: 50th golden jubilee Annual Convention on Digital life, organized by CSI India, 2-5 Dec. 2015, Bharati Vidyapeeth Educational Complex. Proceedings Published in ICT Based Innovations pp 11-22, LNCS Springer [SCOPUS Indexed] (December 2015).
9. **Aditya Khamparia**, Namita Sharma, Babita Pandey, Ontology based Product Information Retrieval ECOMMTOLGY, In proceeding of IEEE Second International Conference on Computational Intelligence & Communication Technology (CICT) , 2016, pp. 627 – 631, (held in Ghaziabad, New Delhi). DOI: 10.1109/CICT.2016.130
10. **Aditya Khamparia**, Monika Rani, Babita Pandey, O P Vyas, Blended e Learning Training (BeLT): Enhancing Railway Station controller Knowledge, Second International Conference on ICT for Competitive Strategies, 4-5 March,2016, Udaipur, INDIA. DOI: 10.1145/2905055.2905170
11. **Aditya Khamparia**, Babita Pandey.: A QoS and Cognitive parameter based uncertainty model for selection of semantic web services. International Conference on Computing Sciences, Shannon100, held at Lovely Professional University, India 8-9 April, 2016.
12. Babita Pandey, **Aditya Khamparia** and Sandeep Rani, EEG ontology based performance analysis using SPARQL, International Conference on Computing Sciences, Shannon100, held at Lovely Professional University, India 8-9 April, 2016
13. Babita Pandey and **Aditya Khamparia**, Selection of Semantic web services, in International Conference on Computing Sciences (Shannon100 ICCS), held at Lovely Professional University, India 8-9 April, 2016.

14. Babita Pandey, Vikas Pardesi and **Aditya Khamparia**, Performance Analysis on Agriculture Ontology Using SPARQL Query System, IEEE proceeding, International Conference on Data mining and Intelligent Computing(ICDMIC), 2014, Pages: 1 - 5, DOI: 10.1109/ICDMIC.2014.6954258

15. **Aditya Khamparia**, Babita Pandey, Architecture and performance based comparison of semantic web service processes, 2nd IEEE International Conference on Next Generation Computing Technologies (NGCT-2016) Dehradun, India 14-16 October 2016 10.1109/NGCT.2016.7877423.

16. **Aditya Khamparia**, Rubina, Amandeep Gahrier, Real time Prediction of Bus Arrival Time: A review, 2nd IEEE International Conference on Next Generation Computing Technologies (NGCT-2016) Dehradun, India 14-16 October 2016 978-1-5090-3257-0/16/\$31.00 ©2016 IEEE.

17. **Aditya Khamparia**, Vikas Pardesi.: Encryption/Decryption of X-ray images using Elliptical curve cryptography with issues and applications. In: Emerging ICT for bridging the future- **Springer link**, JNTU Hyderabad. (December 2014).

18. **Aditya Khamparia**, Saira Banu.: Program analysis with dynamic instrumentation Pin and Performance Tools. In: Proceedings of the **IEEE** International conference on Emerging Trends in Computing, Communication and Nanotechnology, Tamilnadu. (March 2013).

19. **Aditya Khamparia**, Vikas pardesi, Narendra Kr Bagde.: A secure framework in Brokerage of heterogeneous cloud environment for multiple cloud providers. In; Proceedings of the **IEEE** CONFLUENCE, 978-1-4799-4236-7/14/\$31.00_c 2014 IEEE (2014).

20. **Aditya Khamparia**, Babita Pandey, An adaptive Java Tutorials using HMM Based Approach, in Proceedings of Springer Book Series on “Advances in Intelligent Systems and Computing” (SCOPUS), at North West Group of Institutions, Moga, Punjab, India during 23-24 June 2017.

21. Babita Pandey and **Aditya Khamparia** , Comparative assessment of Programming languages and plant sciences Instructors in mobile based learning environment, International Conference on Advanced Informatics for Computing Research ICAICR-2017, 17-18 March, 2017 held at Lyallpur Khalsa College of Engineering, Jalandhar.

22. **Aditya Khamparia**, Sanjay Kumar Singh, SVM-PCA based Handwritten Devanagari Digit Character Recognition, In Springer International Conference on CCIS Proceedings (SCOPUS), NEXTCOM 2017, 25 Nov, 2017, CT Institute of Technology, Jalandhar, Punjab, India.
23. **Aditya Khamparia**, Sanjay Kumar Singh, Babita Pandey, Classification and Analysis of Users review using different classification techniques in E-learning system, In Springer International Conference on CCIS Proceedings (SCOPUS), NEXTCOM 2017, 25 Nov, 2017, CT Institute of Technology, Jalandhar, Punjab, India.

National Conference

1. **Aditya Khamparia**, Babita Pandey: Heuristics and Non- Heuristics based service composition methods. In: Proceedings of National Conference on Management and Technology for Skill Development: Innovative Approaches, SMS Varanasi. (February 2014).

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1. **Aditya Khamparia**, Babita Pandey.: Book Chapter on Impact of Interactive Multimedia in E-Learning Technologies: Role of Multimedia in E-Learning. In: Enhancing Academic Research with Knowledge Management Principles, Idea Group Publisher (**IGI Global**), USA. **Online Doi:** 10.4018/978-1-5225-2489-2.ch007,(2017). (API 6).
2. Rubina Chaudhary, **Aditya Khamparia**.: Prediction of Bus Arrival time using Intelligent Computing methods. In: Pervasive Computing: A Networking Perspective and Future Directions, **Springer**, Accepted, (2018).
3. Naman Gupta, Rishabh Jain, Deepak Gupta, Ashish Khanna, **Aditya Khamparia**, Modified ant lion optimization algorithm for improved diagnosis of thyroid disease, *Cognitive Informatics and Soft Computing*, 599-610, Springer, 2020.
4. Utkarsh Shrivastav, Sanjay Kumar Singh, **Aditya Khamparia**, A Novel Approach to Detect Edge in Digital Image Using Fuzzy Logic, In: *Sustainable Technologies for Computational Intelligence*, 63-74, Springer, 2020.
5. Gurinder Saini, **Aditya Khamparia**, Ashish Kumar Luhach. Classification of Plants Using Convolutional Neural Network, In: *Sustainable Technologies for Computational Intelligence*, 551-561, Springer, 2020.
6. Amritpal Singh, **Aditya Khamparia**, Ashish Kr Luhach. Performance comparison of Apache Hadoop and Apache Spark, In: *Proceedings of the Third International Conference on Advanced Informatics for Computing Research*, 1-5, Springer, 2019.

7. Praveen Kumar Bhanodia, **Aditya Khamparia**, Babita Pandey, Shaligram Prajapat. Online social network analysis, In: *Hidden Link Prediction in Stochastic Social Networks*, pages 50-63, IGI Global, USA, 2019.
8. Praveen Kumar Bhanodia, Kamal Kumar Sethi, **Aditya Khamparia**, Babita Pandey, Shaligram Prajapat. Similarity-Based Indices or Metrics for Link Prediction, In: *Hidden Link Prediction in Stochastic Social Networks*, pages 1-29, IGI Global, USA, 2019.
9. **Aditya Khamparia**, Babita Pandey. An Adaptive Java Tutorials Using HMM-Based Approach, In: *Smart Innovations in Communication and Computational Sciences*, pages 101-111, Springer, USA, 2019.

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- **Aditya Khamparia**, Babita Pandey, “Hidden Link Prediction in Stochastic Social Networks”, IGI Global, USA, Pages 281, ISBN: 9781522590965, DOI: 10.4018/978-1-5225-9096-5, 2018.
- 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 [In Press]
- 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. [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 [In Press]

Achievements and Professional Activities

- 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 Wyzykowski 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	: -	28 th 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.
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