

Dr. Imran Khan
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Research Area	Machine Learning, Deep Learning, Big Data, Cloud Computing.
Ph.D. Title	A Framework for Analysis of Big Data in Cloud Based Environment.
National Level Tests	UGC-NET, GATE

Work Experience

- Currently, working as **Assistant Professor** at Harcourt Butler Technical University (HBTU), Kanpur.
- Worked as **Senior Data Scientist** at Crisp Analytics (LUMIQ), Noida.
- Worked as **Assistant Professor** at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), GGSIP University.
- Worked as **Software Engineer** at Yewes Softwares, Noida.

Academic Profile

- Condoned **Doctorate of Philosophy (Ph.D.)** from Jamia Millia Islamia, New Delhi.
- Alumnus of Aligarh Muslim University for **Masters of Computer Applications (MCA)** and **Bachelor of Science (Hons.) (Chemistry, Physics, Mathematics)**.
- Elementary and High School education completed from Aligarh Muslim University.

Research Publications

Journals

1. Khan, I., Kumar, A. & Khare, B.K. ConvHistQA: exploring comprehensive history selection in conversational question answering. Knowl Inf Syst 68, 99 (2026). <https://doi.org/10.1007/s10115-026-02723-3>.
2. Khan, Imran, and Brajesh Kumar Khare. "Integrating AI in plant science: A review of applications and future prospects." Plant Gene (2025): 100542
3. Khare, B.K., Khan, I. Optimized emotion classification in code-mixed Hinglish text using an mBERT based hybrid neural network with attention mechanisms. Int. j. inf. tecnol. (2025). <https://doi.org/10.1007/s41870-025-02813-5>
4. Khan, I., & Khare, B. K. (2025). Diagnosis of polycystic ovary syndrome (PCOS) using TabNet and BiLSTM with attention model. Health Systems, 1–16. <https://doi.org/10.1080/20476965.2025.2601099>

5. Khan, Imran, and Brajesh Kumar Khare. "A Transformer Based BiLSTM Model with Multihead Attention for Emotion Classification in Code-Mixed Hinglish Text" *YMER Journal* (2026) 25(02): 34-53.
6. Khan, Imran, and Brajesh Kumar Khare. "Exploring the potential of machine learning in gynecological care: a review." *Archives of Gynecology and Obstetrics* (2024): 1-19.
7. Khan, Imran, et al. "Deep transfer learning for fine-grained maize leaf disease classification." *Journal of Agriculture and Food Research* 16 (2024): 101148.
8. Khan, Imran, and Rekha Gupta. "Early depression detection using ensemble machine learning framework." *International Journal of Information Technology* (2024): 1-8.
9. Khan, Imran. "A study of big data in cloud computing." *Computer Assisted Methods in Engineering and Science* 31.3 (2024).
10. Brajesh Kumar Khare, Imran Khan "Machine Learning Approaches for Sentiment Analysis in Hindi Text: A Comprehensive Survey", *International Journal of Innovative Research in Computer Science & Technology (IJIRCST)*, ISSN: 2347-5552, Volume-12, Special Issue-1, March-2024.
11. Imran Khan, Tanya Garg, "An Analytical Study of Cloud Security Enhancements", *International Journal of Wireless and Microwave Technologies(IJWMT)*, Vol.14, No.1, pp. 14-28, 2024. DOI:10.5815/ijwmt.2024.01.02
12. Khan, I., Agarwal, R. Can ChatGPT Help in the Awareness of Diabetes?. *Ann Biomed Eng* 51, 2125–2129 (2023). <https://doi.org/10.1007/s10439-023-03356-1>
13. Khan, Imran, et al. "An efficient framework for real-time tweet classification." *International Journal of Information Technology* 9.2 (2017): 215-221
14. Imran Khan, S. Kazim Naqvi, Mansaf Alam, Mohammad Najmud Doja, S. Nasir Aziz Rizvi, "An Efficient Framework for Creating Twitter Mart on a Hybrid Cloud", *International Journal of Information Technology and Computer Science (IJITCS)*, Vol.9, No.10, pp.59-67, 2017. DOI: 10.5815/ijitcs.2017.10.06.
15. Imran Khan, S. Kazim Naqvi, Mansaf Alam, Mohammad Najmud Doja, S. Nasir Aziz Rizvi, "An Efficient Vector Space Model for Tweet Classification" *Technics Technologies Education Management*, Vol. 12, No: 04, pp.232-241, 2017.

Conferences

1. Khan Imran,Naqvi, S.K., Alam M,Rizvi S.N.A. "Data model for Big Data in cloud environment" *Computing for Sustainable Global Development (INDIACom), 2015 2nd International Conference on 2015*
2. Khan Imran,Khan Asif, Shaikh R.A. "Object analysis in image mining" *Computing for Sustainable Global Development (INDIACom), 2015 2nd International Conference on 2015*
3. Imran Khan, S. K Naqvi, MansafAlam, S.N.A Rizvi "A Framework for Twitter Data Analysis" CSI- 2015, the Golden Jubilee year of the *Computer Society of India(CSI) and the 50th Annual Convention* 02nd-05th December 2015, New Delhi. Proceeding to be published by **Springer**.
4. KissiMireku, Zhang FengLi, Mensah, Dennis, Asif Khan, Imran Khan "Secured Cloud Database Health care mining Analysis" Proceedings of the *10th INDIACom-2016; IEEE 2016 3rd International Conference on "Computing for Sustainable Global Development"*, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
5. Rafaqat Hussain, Kamlesh Kumar, Hui Gao, Imran Khan "Recognition of merged characters in text based CAPTCHAs" Proceedings of the *10th INDIACom-2016; IEEE*

- 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
6. Muhammad Hammad Memon, Muhammad Hunain, Asif Khan, Riaz Ahmed Shaikh, Imran Khan “Power management for Android platform by Set CPU” Proceedings of the 10th INDIACom-2016; IEEE 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
 7. Kamlesh Kumar, Jian-Ping Li, Imran Khan “A comparative study among colorful image descriptors for content based image retrieval” Proceedings of the 10th INDIACom-2016; IEEE 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
 8. Asif Khan, Jian-Ping Li, Riaz Ahmed Shaikh, Imran Khan “Vision based classification of fresh fruits using fuzzy logic” Proceedings of the 10th INDIACom-2016; IEEE 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
 9. Riaz Ahmed Shaikh, Jian-Ping Li, Asif Khan, Imran Khan “Content based grading of fresh fruits using Markov random field” Proceedings of the 10th INDIACom-2016; IEEE 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016, ISSN 0973-7529; ISBN 978-93-80544-20-5
 10. Mudassir Khalil, Jian-Ping Li, Asif Khan, Imran Khan “Fluid Flow Algorithm To Solve Travel Salesman Problem” Proceedings of the Proceedings of the 11th INDIACom-2017; IEEE 2017 4th International Conference on “Computing for Sustainable Global Development”, 01 - 03 March, 2017, ISSN 0973-7529; ISBN 978-93-80544-24-3
 11. Rajeev Kumar Shah, MD. Altab Hossin, Asif Khan, Imran Khan “Handwritten English Character Recognition Using An Improved Syntactic Pattern Recognition Method With Curvature Analysis” Proceedings of the 11th INDIACom-2017; IEEE 2017 5th International Conference on “Computing for Sustainable Global Development”, 01 - 03 March, 2017, ISSN 0973-7529; ISBN 978-93-80544-24-3
 12. Rajeev Kumar Shah, Prakash Kumar Bipin, Asif Khan, Imran Khan “Fuzzy Multi Criteria Decision Making Method to Detect Phishing Web Sites” Proceedings of the 11th INDIACom-2017; IEEE 2017 5th International Conference on “Computing for Sustainable Global Development”, 01 - 03 March, 2017, ISSN 0973-7529; ISBN 978-93-80544-24-3
 13. Tanya Pathak Garg, Imran Khan “A Survey on Deep Learning - Architectures and Applications” Proceedings of the 12th INDIACom-2018; 5th International Conference on “Computing for Sustainable Global Development”, 14th - 16th March, 2018, ISSN 0973-7529; ISBN 978-93-80544-28-1.
 14. Shivendra Goel, Tanya Pathak Garg, Imran Khan “An Applicative Study of Advances in Machine Learning” Proceedings of the 13th INDIACom-2019; 6th International Conference on “Computing for Sustainable Global Development”, 13th - 15th March, 2019, ISSN: 0973-7529; ISBN: 978-93-80544-32-8 (**Scopus Indexed**).
 15. Khan, I., Agarwal, R. (2024). Comprehensive Survey on AQI Prediction Using Machine Learning Algorithms. In: Roy, B.K., Chaturvedi, A., Tsaban, B., Hasan, S.U.

(eds) Cryptology and Network Security with Machine Learning. ICCNSML 2022. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-99-2229-1_32

16. Khare, Brajesh Kumar, and Imran Khan. "An Exploration of Machine Learning Approaches in the Field of Cybersecurity." International Conference on Cryptology & Network Security with Machine Learning. Singapore: Springer Nature Singapore, 2023.
17. Khare, B.K., Khan, I. (2025). "Transforming Emotions: A Comprehensive Review of Text Emotion Detection with Transformer Models". In: Noor, A., Saroha, K., Pricop, E., Sen, A., Trivedi, G. (eds) Emerging Trends and Technologies on Intelligent Systems. ETTIS 2024. Lecture Notes in Networks and Systems, vol 1073. Springer, Singapore. https://doi.org/10.1007/978-981-97-5703-9_43
18. Mohd Shuaib Zahid, and Imran Khan. " Optimal Region Based Reserve Price Optimization in RTB Advertising" The 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT)
19. Mohd Shuaib Zahid, and Imran Khan. " A Survey Paper on RTB Advertising" International Conference on Building Future Through Humanities and Technology: Sustainable Development Goals And Local Actions ICONSDG-2025
20. Mohd Shuaib Zahid, and Imran Khan. " A Survey Paper on Reserve Price Optimization in RTB Advertising" International Conference on Building Future Through Humanities and Technology: Sustainable Development Goals And Local Actions ICONSDG-2025

Workshops | Faculty Development Initiatives

S. No.	Subject	Event Description	Dates	Organized by	Participation Capacity
1.	Workshop	IT-Training Workshop	Nov, 15- Dec 06, 2010	Heinz India Pvt. Ltd, Aligarh	Trainer
2.	Workshop	Emerging Trends in Computing & Challenges for Future	April 22, 2015	BLS Institute of Technology Management, G.G.S. Indraprastha University New Delhi	Resource Person
3.	Workshop	DBT-BIF 6 th Workshop on Advances in Computational Biology and Bioinformatics	Feb 27- 28, 2015	Dept of Computer Science, Jamia Millia Islamia New Delhi	Resource Person
4.	FDP	Two Weeks FDP on "Emerging Trends in Computer Science and IT" held during 16-27 th May, 2016 organized by BVICAM, New Delhi	16-27 th May, 2016	BVICAM	Participated
5.	FDP	One Week FDP on "Emerging Research Trends in Computer Science and IT" held during 25- 30 th July,	25-30 th July, 2016	BVICAM	Participated

		2016 organized by BVICAM, New Delhi			
6.	Workshop	One Day Workshop on “Data Science” on Oct 18, 2016	Oct 18, 2016	GGSIPIU, University Campus	Participated
7.	FDP	One Week Faculty Development Program on “Emerging Research Trends in Computer Science and IT”, in association with IEEE Computer Society (Delhi Section) & IIPC (AICTE)	25 th – 30 th July, 2017	BVICAM, New Delhi	Participated
8.	FDP	Two Weeks Faculty Development Program on “Emerging Research Trends in Computer Science and IT”, in association with IEEE Computer Society (Delhi Section) & IIPC (AICTE)	15 th – 27 th May, 2017	BVICAM, New Delhi	Participated
9.	FDP	One Week Faculty Development Program on “Emerging Research Trends in Computer Science and IT”, in association with IEEE Computer Society (Delhi Section) & IIPC (AICTE)	23 th – 28 th July, 2018	BVICAM, New Delhi	Participated
10.	FDP	One Week Faculty Development Program on “Inculcating Universal Human Values in Technical Education”.	12 th June to 16 th June 2023	All India Council for Technical Education (AICTE)	Participated
11.	FDP	One week online training program on “Cyber-Attacks and Defense”“Cyber-Attacks and Defense”	31 st July, 2023 to 4 th August, 2023	C-DAC, NOIDA	Participated
12.	FDP	One Week Faculty Development Programme on “Cyber Security in the Era of Artificial Intelligence”	18 th Sep to 23 rd Sep 2023	Department of Computer Sciences, BGSB University, Rajouri	Resource Person
13.	FDP	One week online training program on “Data Analytics using Machine Learning”	3 rd June 2024 to 7 th June 2024	Birla Institute of Technology, Noida	Participated
14.	FDP	One week online training program on “Blockchain Technology and Applications”	24 th June 2024 to 28 th June 2024	Birla Institute of Technology, Noida	Participated
15.	Workshop	Workshop on “Empowering Agriculture through Technology”	12 th Aug 2024 to 30 th Aug 2024	Dept. of CSE HBTU, Kanpur in collaboration	Resource Person

				with ICAR-IIPR, Kanpur	
16.	FIP	UGC Sponsored Online Second FACULTY INDUCTION PROGRAMME	3 rd Feb 2025 to 26 th Feb 2025	THE GANDHIGRAM RURAL INSTITUTE - DTBU Gandhigram-624302, Dindigul District, Tamil Nadu.	Participated
17.	FDP	UGC Sponsored Online Training Programme on “NEP 2020 Orientation & Sensitization Programme”	18 th March to 26 th March 2025	Hansraj College, University of Delhi	Participated

Skill Profile

Computer Language(s)	Python, R, C, C++
Database(s)	Oracle 10g, 11g, MySQL
Framework(s)	Hadoop, TensorFlow, PyTorch
Area of Interest	Machine Learning, Deep Learning, Natural Language, Processing, Computer Vision, Big Data

Accomplishments | Leadership Initiatives

- Purchase Officer (Former)** at Harcourt Butler Technical University, Kanpur
- Faculty Coordinator of Training and Placement Cell**, BVICAM GGSIPU.
- Coordinator, Industry Institute Partnership Cell & Corporate School** BVICAM.
- Student Representative and Member of the **University Literary Club** AMU.
- Organizing member of **Master quiz** held at University Literary Club AMU.
- Lead coordinator for **National Symposium** held at University Literary Club AMU.
- Captain, University Wrestling Club**, Aligarh Muslim University.
- Participated in **All India Intervasty Wrestling Tournament** thrice.