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Citations	798	760
h-index	14	14
i10-index	23	20

Career Abstract

- **Academic professional** with over 19 years of expertise in **teaching, research, and administration**, focusing on **Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), Python Programming, and Cloud Computing**.
- Certified **Senior Member of IEEE** and active participant in the **AI Council, Ministry of Higher Education, Science, and Innovation, Uzbekistan**, contributing to advancements in AI-driven educational initiatives.
- Authored **70+ research papers**, including **47 indexed in Scopus**, and recognized as a **prolific contributor** to international journals and conferences.
- **Book author** of "*Level Up Your Programming With Core Dragon*" and **holder of multiple international patents** in AI and IoT innovations.
- Honored with prestigious accolades, including **Scientific Leader of the Year (2024), Outstanding Performer in STEM**, and **Top-performing Mentor** by NPTEL for impactful contributions to skill development.
- Key organizer and **Co-Chair** of international IEEE-sponsored conferences, such as **ICTACS-2023 & ICTACS-2024**, and technical program chair of multiple IEEE SMART conferences, fostering global collaboration in computational sciences.
- Expertise in designing **skill development programs** on AI, IoT, and Python, delivered in collaboration with **government ministries and universities**, enhancing industry-academic integration.
- Adept at conducting **hands-on workshops, FDPs, and training modules** on emerging technologies, empowering over **1000 participants** with practical knowledge and innovative approaches.
- Recognized mentor, trainer, and research guide, committed to inspiring students, researchers, and professionals to excel in cutting-edge technologies and achieve academic excellence.
- Proficient in **conference leadership**, session chair roles, and global research collaborations, bridging academia with industry to drive impactful technological innovations.

Academic Achievement Details

Degree/ Course	Institution / Board	Location	Year of Completion	Grade/ Percentage
Postdoctoral Research	Infrastructure University Kuala Lumpur	Kuala Lumpur, Malaysia	2024	None
Ph.D. (Computer Science)	Himalayan University	Itanagar, India	2015	None
Ph.D. (Computer Science & Engineering)	Dr. APJ Abdul Kalam Technical University	Lucknow, India	2023	None

M.Phil. (Computer Science)	Alagappa University	Karaikudi	2008	61.4%
M.Tech. (C.S.E.)	Dr. A.P.J. Abdul Kalam Technical University, Lucknow	Lucknow	2013	7.3/10 (C.P.I.)
M.C.A.	Dr. A.P.J. Abdul Kalam Technical University, Lucknow	Lucknow	2005	77.5% (Honours)
B.Sc. (Maths, Statistics)	MJP Rohalkhand University, Bareilly	Bareilly	2001	62.8%
Intermediate (XII)	C.B.S.E., New Delhi	New Delhi	1998	66.8%
High School (X)	I.C.S.E., New Delhi	New Delhi	1996	71%

Awards Received

Year	Award	Awarded By	Additional Info
2024	Certificate of Appreciation	IEEE Region 8 Student Activities Committee	Recognized for serving as a judge in the IEEE Duino Student Hardware Contest 2024, contributing expertise and support to its success.
2024	Certificate of Appreciation	BRB Bank, Uzbekistan	Organizing BRB Fintech Hackcelerator as Coordinator of the Event
2024	Honorary Mentor of SMS Incubation	SMS Incubation and Entrepreneurship Foundation	Responsible to provide guidance and mentorship to entrepreneurs/startups, review their projects, and connect them with industry networks.
2024	Scientific Leader of the Year	Amity University, Tashkent	Awarded for leading scientific initiatives and advancements in 2024.
2023	Certificate of Appreciation	Ministry of Higher Education, Science, and Innovations, Ministry of Pre-School and School Education, Amity University Tashkent	Coordination and leadership demonstrated as the coordinator during the Technical Skill Development Programme titled "Fundamentals of Python, Artificial Intelligence, and Internet of Things."
2023	Certificate of Appreciation	Ministry of Digital Technologies of the Republic of Uzbekistan	Outstanding service and significant contribution to the development of digital education in the Republic of Uzbekistan.
2023	Faculty of the Year	Amity University, Tashkent	Recognized for exceptional teaching and contribution to the academic community in 2023.
2020	Outstanding Performer in Academics	STEM in association with NIT Jalandhar	Recognized for academic excellence in STEM fields.
2019	Active SPOC	NPTEL, funded by MoE, Govt. of India	Coordinated NPTEL courses and activities for the third consecutive year.
2019	Ambassador IEEE DAY	IEEE	Served as an ambassador promoting IEEE Day activities.

2019	Silver Medal	NPTEL, funded by MoE, Govt. of India	Awarded in an educational course for outstanding performance.
2019	IEEE Senior Member in Good Standing	IEEE	Recognized for continued professional excellence and contributions to IEEE.
2019	Replica of Appreciation CETPA	CETPA	Honored for contributions to technical education and training.
2018	Active SPOC	NPTEL, funded by MoE, Govt. of India	Continued role as an active coordinator for NPTEL.
2018	Top-performing Mentor award	NPTEL, funded by MoE, Govt. of India	Awarded for exceptional mentoring in the online course "JOY OF COMPUTING using PYTHON."
2017	Active SPOC	NPTEL, funded by MoE, Govt. of India	Served as a Single Point of Contact for NPTEL activities.
2017	Appreciation	IEEE UP Section	Acknowledged for significant contributions to organizing major IEEE events.
2017	Certificate of Appreciation	IEEE UP Section	Recognized for dedicated service and contribution during the year.

Patents Applied/Published/Granted

Number	Application Date	Application Number	Title	Abstract/Description
1	27.10.2023	202311067359	Integrated Drone Surveillance System for University Hostels Utilizing LoRa Technology	An integrated drone surveillance system using LoRa technology for university hostels. Includes drones for surveillance, a central monitoring station, a LoRa communication module, and a user interface for real-time monitoring and control.
2	09.12.2022	202211067442	Authentication of External Devices to Implantable Medical Devices Using AI.	A security protocol for implantable medical devices that uses AI to ensure secure and private communication of patient data via remote user authentication.
3	09.12.2022	202211067440	Payment Processing Platform with Payment Making Platform for Differentiated Payment Allocations Using Cryptocurrency and Deep Learning	A payment system that supports transactions in any currency, utilizing cryptocurrency and deep learning to enhance transaction efficiency and security.
4	15.04.2022	202211021006	Automated Detection of COVID-19 Disease Using	A system for detecting COVID-19 using deep neural networks and image

			Deep Neural Networks and Images Processing	processing, capable of binary and multi-class classification of X-ray images.
5	14.04.2022	202022101131	Intelligent Management System for Online Technical Learning and Training Based on Information Literacy	An intelligent management system for technical online learning and continuing education, using information competency to filter and classify educational content.
6	04.02.2022	202241001137	Index Modulation Techniques for 5G Wireless Networks	Discusses the implementation of spatial modulation techniques and OFDM with IM to enhance the efficiency of 5G networks.
7	13.01.2022	17384711	Interactive Battery Charger for Electric Vehicle	A smart charging system for EVs that incorporates V2G technology and is integrated with smart grids to optimize charging and grid efficiency.
8	10.12.2021	202141054239	IoT Based Effective Monitoring System for Greenhouse by Using Deep Learning (DL) and Bot- Notification	A greenhouse monitoring system that uses IoT and deep learning to manage crop production and detect anomalies in real-time.
9	26.11.2021	202111051972	Implementation of Innovative CAD/CAE Design Tools in Engineering-Education: A Modern Approach to Industrial Design	A study on the integration of CAD/CAE tools in engineering education to enhance learning through project-based activities.
10	29.01.2021	202111000123	Two Axis (180D) Intelligent Solar Tracking System Using Integrated Artificial Intelligent System	An intelligent solar tracking system that uses AI to adjust the position of solar panels for optimal sun exposure and energy efficiency.
11	29.01.2021	202111000125	Vehicle Speeding Detection: Automatic Vehicle Speeding Detection, Location, Notification, and Tracking System	A system to detect and manage speeding vehicles using GPS, sensors, and automated license plate recognition and notification.
12	26.11.2020	2020103214	INHA- Combined Health Monitoring: Intelligent IoT-Based Combined Health Monitoring, Notification, Alert, Home Automation System	An IoT-based health monitoring system that enables healthcare providers to manage and monitor patient health remotely and interactively.
13	26.11.2020	2020103213	AIPB- Routing Protocol Verification: Ad Hoc Routing Protocol Intelligent Verification	A verification system for ad hoc routing protocols using Beagle Bone Black, focusing on reliability and real-time data authentication in networking.

			Process Based on Beagle Bone Black kit	
14	19.11.2020	2020102991	IMRM- Class Monitoring System: IoT and AI-Based Real Time Class Monitoring and Faculty and their Course Materials Availability	An IoT and AI-based system for monitoring classroom activities and managing educational content and faculty resources in real-time.

Employment and Responsibilities

University	Location	Role	Start Date	End Date
Amity University	Tashkent, Uzbekistan	Professor	14 Oct 24	Till date
Amity University	Tashkent, Uzbekistan	Associate Professor	02 Aug 22	13 Oct 24
Sharda University	India	Associate Professor	15 Jun 21	22 Jul 22
Sharda University	Uzbekistan	Associate Professor	05 Oct 20	15 Jun 21
Teerthanker Mahaveer University (TMU)	Formerly TMIMT	Associate Professor	Jul 2019	21 Mar 20
Teerthanker Mahaveer University (TMU)	Formerly TMIMT	Assistant Professor	Oct 2008	Jun 2019
Teerthanker Mahaveer University (TMU)	Formerly TMIMT	Lecturer	27 Oct 05	Sep 2008

Supervision of Postdoctoral Researchers

S. No.	Candidate Name	Research Topic	Duration	Mode	Role	Publications
1	Dr. Pratap Patil	A Hybrid Approach to Enhance Security and Project Multi-Model Biometric Temperature	1 Dec 2024 – 30 Nov 2025	Online	Supervisor	At least 2 CIJ publications expected
2	Dr. Vishal Jain	Advancements in Artificial Intelligence and Machine Learning	1 Dec 2024 – 30 Nov 2025	Online	Supervisor	At least 2 CIJ publications expected
3	Prof. (Dr.) Ambuj Kumar Agarwal	Design and Development of Improved Software Complexity Metric	1 Dec 2024 – 30 Nov 2025	Online	Supervisor	At least 2 CIJ publications expected
4	Dr. Mohit Bhandwal	Design and Analysis of a Hyper Redundant Robotic Arm	15 Dec 2024 – 14 Dec 2025	Online	Supervisor	At least 2 CIJ publications expected
5	Dr. Tanveer Baig	Design of WSN Platform to Track and Monitor Health of Underwater Animals using IoT	1 Dec 2024 – 30 Nov 2025	Online	Supervisor	At least 2 CIJ publications expected

Session Chair and Guest Lecture Engagements

Date	Event	Role	Location
January 24-25, 2025	International Conference on Information Technology and Artificial Intelligence (ITAI 2025)	Session Chair	TS 03: Computer Vision Gurugram University, Gurgaon, India
06-07 December 2024	13th International Conference on SMART - 2024 (IEEE Conference Record #63812)	Keynote Speaker & Session Chair	TMU, Moradabad, India
18-19 October 2024	2nd International Conference on Pervasive Computing Advances and Applications (PerCAA 2024)	Keynote Speaker	Poornima College of Engineering (Hybrid Mode)
27-28 July 2024	3rd 2024 IEEE World Conference on Applied Intelligence and Computing (AIC 2024)	Session Chair	Ghaziabad, India
29-30 Mar 2024	International Conference on Computing and Machine Learning (CML 2024)	Session Chair	Sikkim Manipal Institute of Technology, Sikkim Manipal University, India
28-29 June 2024	International Conference on Intelligent Computing and Communication Techniques (ICICCT-2024)	Session Chair	Jawaharlal Nehru University, New Delhi, India
7-9 Mar 2024	International Conference on Advanced Data-Driven Intelligence and Engineering (ICAIE 2024)	Session Chair	JAIN (Deemed-to-be University), Bangalore, Karnataka, India
22-23 Feb 2024	5th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2024)	Session Chair	Sir Padampat Singhania University, Udaipur, India
29-30 Dec 2023	International Conference on Recent Advancements in Computing Technologies & Engineering (RACTE-2023)	Session Chair	KIET Group of Institutions, Delhi-NCR, Ghaziabad
22-23 Dec 2023	12th International Conference on SMART-2023 (System Modeling & Advancement in Research Trends)	Session Chair	College of Computing Sciences & IT, Teerthanker Mahaveer University, Moradabad, UP, India
28-30 Apr 2023	2nd International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES-2023)	Session Chair	G.L. Bajaj Institute of Technology & Management, Greater Noida
23 Mar 2021	Guest Lecture	Speaker	Imam AbdulRahman Bin Faisal University, Dammam, Saudi Arabia
20 Feb 2021	International Conference on Computing, Communication, and Intelligent Systems ICCIS-2021	Session Chair	Sharda University, India
20 Feb 2021	International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES-2023)	Session Chair	Sharda University, India

30 Jan 2021	Guest Lecture on "Exploring Arduino – Live Arduino Based Projects"	Speaker	Babu Banarsi Das Engineering College
09 Jan 2021	Guest Lecture on "Understanding Arduino Based Projects"	Speaker	IET Lucknow
5-6 Jan 2021	Guest Lecture and hands-on simulation on "Implementation using Arduino"	Speaker	IET Lucknow
26 Dec 2020	Guest Lecture on "Implementation using Arduino live simulation-based projects"	Speaker	SMS Lucknow
23 Dec 2020	Guest Lecture on "Implementation using Arduino simulation-based learning"	Speaker	GNIOT Greater Noida
21 Dec 2020	Hands-on-workshop on "Traffic light simulation using Arduino"	Speaker	Invertis, Bareilly, India
19 Dec 2020	International Conference	Session Chair	IPEM, Noida
28 Nov 2020	International Conference UPCON 2020	Session Chair	MNNIT, Allahabad
18 Apr 2019	International High Performance Computing Conference	Session Chair	KEC, Ghaziabad
04 Jul 2019	Invited Talk on Theory of Automata	Invited Speaker	DEC, AKTU
29 Jan 2019	Guest Lecture on "NPTEL Awareness & Motivation"	Speaker	Indian Institute of Technology Kanpur, Kanpur
23 Feb 2019	Session Chair in International Internet of Things Smart Innovation and usages	Session Chair	Birla Institute of Applied Sciences, Bhimtal
16 Feb 2019	Invited Speaker in National Digital Engagement at Community Level	Invited Speaker	Birla Institute of Applied Sciences, Bhimtal
14-15 Mar 2018	5th IEEE International Conference on INDIACOM2018	Session Chair	BVICAM, New Delhi in association with IEEE U.P. Section
23-24 Feb 2018	3rd IEEE International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018)	Session Chair	Birla Institute of Applied Sciences, Bhimtal in Association with IEEE U.P. Section and USERC Bhimtal

Publications

Category	Year	Full Reference
Book	2025	Kumar, R., Jain, V., Ather, D., Kukreja, V., & Singhal, M. (Eds.). (2025). <i>Network Security and Data Privacy in 6G Communication: Trends, Challenges, and Applications (1st ed.)</i> . CRC Press.
Book Chapter	2025	A. S. Astitva Bhardwaj Dharm Raj Danish Ather Anil Kumar Sagar Vishal Jain, "Dynamic and Scalable Privacy-Preserving Group Data Sharing in Secure Cloud Computing," in <i>Advanced Cyber Security Techniques for Data, Blockchain, IoT, and Network Protection</i> , vol. 1, IGI, 2025, pp. 89–122.

Book Chapter	2024	<p>M. Saleem, C. Chawla, and D. Ather, "Ethical Considerations in the Deployment of Generative AI Systems in Academia," in <i>Generative AI: Current Trends and Applications</i>, Springer Nature Singapore, Singapore, 2024, pp. 245–256.</p> <p>R. Gupta, M. S. Adhikari, D. Raj, V. Jain, A. K. Sagar, and D. Ather, "Blockchain in Web3.0," in <i>Blockchain-Based Solutions for Accessibility in Smart Cities</i>, IGI Global, 2024, pp. 171–204.</p>
Journal	2025	<p>D. Ather, A. K. Agarwal, S. J. Quraishi, and R. Kher, "Integrating Internet of Things Sensors with Machine Learning for Urinary Tract Infection Prediction in Male Felines.," <i>Journal of Intelligent Systems & Internet of Things</i>, vol. 14, no. 1, 2025.</p> <p>D. Ather et al., "Advanced IoT Framework for Optimizing Sunflower Seed Production in Uzbekistan: Integration of Multi-Environmental Sensors.," <i>Journal of Intelligent Systems & Internet of Things</i>, vol. 14, no. 1, 2025.</p>
Journal	2024	<p>D. Raj, D. Ather, and A. K. Sagar, "Advancing Vehicular Ad-Hoc Network Solutions in Emerging Economies: A Comparative Analysis of V2V Protocols Through Simulation Studies," <i>SN Comput Sci</i>, vol. 5, no. 8, p. 1077, 2024.</p> <p>D. Ather, A. B. Bin Abdul Hamid, N. I. Binti Ya'akub, and R. Kler, "Enhancing Agricultural Productivity in Uzbekistan: Arduino-Based IoT Framework for Sunflower Seed Yield Improvement through Air and Soil Moisture Monitoring.," <i>Journal of Cybersecurity & Information Management</i>, vol. 13, no. 2, 2024.</p> <p>V. Gupta and D. Ather, "BUSA Deep Learning Model for EEG Signal Analysis," <i>Wirel Pers Commun</i>, vol. 136, no. 4, pp. 2521–2543, 2024.</p> <p>D. Ather et al., "Multi-objective Cluster-head-based Energy-aware Routing using a Separable Convolution Neural Network in a Wireless Sensor Network," <i>IEIE Transactions on Smart Processing & Computing</i>, vol. 13, no. 2, pp. 105–112, 2024.</p> <p>G. Singh, R. P. George, N. Ahmad, S. Hussain, D. Ather, and R. Kler, "A deep learning approach for evaluating the efficacy and accuracy of PoseNet for posture detection," <i>International Journal of System Assurance Engineering and Management</i>, pp. 1–10, 2024.</p>
Journal	2023	<p>T. Baig, D. Ather, S. Setia, S. J. Quraishi, and S. M. Mian, "Towards Advanced Animal Care: A Li-Fi and IoT-Based System for Monitoring Newborn Livestock," <i>ES Materials & Manufacturing</i>, vol. 23, p. 1038, 2023.</p>
Journal	2022	<p>W. Yao et al., "Study and application of an elevator failure monitoring system based on the internet of things technology," <i>Sci Program</i>, vol. 2022, no. 1, p. 2517077, 2022.</p> <p>D. Ather et al., "Selection of smart manure composition for smart farming using artificial intelligence technique," <i>J Food Qual</i>, vol. 2022, no. 1, p. 4351825, 2022.</p> <p>H. V. Pooja Kabra Poonam Agrawal Danish Ather and Shabnam Sayyad, "A Brief Study on Artificial Intelligence in Cancer Research, Diagnosis and Therapy," <i>Asian Journal of Organic & Medicinal Chemistry</i>, vol. 7, no. 1, pp. 68–75, 2022.</p> <p>G. Angappan et al., "An extensive review of performance enhancement techniques for pyramid solar still for solar thermal applications," <i>Desalination</i>, vol. 532, p. 115692, 2022.</p> <p>D. Ather, R. Singh, and R. S. Shukla, "Routing protocol for heterogeneous networks in vehicular ad-hoc network for larger coverage area," <i>Engineered Science</i>, vol. 17, pp. 266–273, 2022.</p>
Journal	2021	<p>M. Saleem, M. U. Khan, and D. Ather, "Fintech startups and banks: Adoption, incentives, competition, and regulations," <i>International Journal on Global Business Management & Research</i>, vol. 10, no. 2, pp. 21–28, 2021.</p>

Journal	2019	<p>R. Naaz, A. K. Saxena, and D. Ather, "A framework for implementing blockchain with enhanced e2e encryption on ethereum 2.0," <i>Int J Adv Sci Technol</i>, vol. 28, no. 20, pp. 399–408, 2019.</p> <p>R. Naaz, D. Sharma, B. Thomas, A. K. Saxena, and D. Ather, "Review paper on self-driving cars implementation techniques and its challenges," <i>Think India Journal</i>, vol. 22, no. 35, pp. 546–552, 2019.</p> <p>R. S. Danish Ather Ravi Shankar Shukla, "An Efficient Route Maintenance Routing Algorithm for VANETS," <i>International Journal of Recent Technology and Engineering (IJRTE)</i>, vol. 8, no. 4, p. 4921, 2019.</p> <p>N. P. Neelam Sharma Anand Kr Shukla Vaibhav Vivek Danish Ather, "Elemental Modularity Design in Smart Phones," <i>International Journal of Engineering and Advanced Technology (IJEAT)</i>, vol. 9, no. 1, pp. 7001–7007, 2019.</p> <p>D. A. Surbhi Gupta Gulista Khan, "BEG: Bin Oriented Energy Efficient Gathering of Data in WSN," <i>International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM)</i>, vol. 54, no. 3, p. 418, 2019.</p> <p>M. T. DANISH ATHER ASHENDRA KUMAR SAXENA, "A SURVEY: VANET VEHICULAR AD-HOC NETWORKS," <i>IJRAR - INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS</i>, vol. 6, no. 2, pp. 268–272, 2019.</p>
Journal	2016	<p>A. Gupta and D. Ather, "A comparative study of various routing protocol for VANETS," <i>MATRIX Academic International Online Journal Of Engineering And Technology</i>, vol. 4, no. 1, pp. 12–18, 2016.</p>
Journal	2014	<p>D. Ather, R. Singh, and V. Katiyar, "Simplifying designing techniques: To design dfa that accept strings over $\Sigma=\{a, b\}$ having at least x number of a and y number of b," <i>International Journal of Computer Applications</i>, vol. 91, no. 7, 2014.</p> <p>D. Ather, A. K. Saxena, and A. K. Agarwal, "A Simplified Solution To Design DFA That Accept Strings Over input symbol {a, b} Having At Least x Number Of A And Exactly x Number Of B.," <i>MATRIX Academic International Online Journal Of Engineering And Technology</i>, vol. 2, no. 1, 2014.</p>
Journal	2013	<p>D. Ather, R. Singh, and V. Katiyar, "An efficient algorithm to design dfa that accept strings over input symbol a, b having atmost x number of a & y number of b," <i>JNIS World Science Publishers, USA</i>, Feb 2013.</p>
Journal	2012	<p>D. Ather, R. Singh, and V. Katiyar, "To develop an efficient algorithm that generalize the method of design of finite automata that accept 'n' base number such that when 'n' is divided by 'm' leaves reminder 'x,'" <i>Int J Comput Appl</i>, vol. 975, no. 8887, 2012.</p> <p>D. Ather, R. Singh, and V. Katiyar, "Transformation of Sequential Program to KPN- An Overview," <i>Int J Comput Appl</i>, vol. 40, no. 17, pp. 43–49, 2012.</p>
Journal	2010	<p>T. Sharma, A. K. Agarwal, D. Ather, and A. Saxena, "SEARCH BASED SOFTWARE ENGINEERING IN REQUISITE PHASE OF SDLC: A SURVEY," <i>TECHNICAL JOURNAL OF LBSIMDS</i>, 2010.</p>
Conference Paper	2024	<p>R. Kumar, D. Ather, P. Sagar, I. Yusupov, S. Duggal, and V. Jain, "Integrating Predictive Models and Remote Sensing for Sustainable Agriculture, Energy, and Environmental Management," <i>ICTACS</i>, pp. 1930-1934. doi: 10.1109/ICTACS62700.2024.10841299.</p>
Conference Paper	2024	<p>D. Ather, I. Yusupov, S. Duggal, R. Kumar, P. Sagar, and V. Jain, "Advancements in Deep Learning for Early Detection and Diagnosis Across Multiple Disease Domains," <i>ICTACS</i>, pp. 1460-1464. doi: 10.1109/ICTACS62700.2024.10840864.</p>

Conference Paper	2024	R. Kler, G. Singh, N. Chaudhary, B. Abdullaev, M. Bhandwal, and D. Ather, "Predicting Career Transitions Through Insights from Academic Background and Workforce Dynamics Using Machine Learning," ICTACS, pp. 134-138. doi: 10.1109/ICTACS62700.2024.10840625.
Conference Paper	2024	S. Duggal, D. Ather, I. Yusupov, P. Sagar, R. Kumar, and V. Jain, "Leveraging Digital Technologies and System Dynamics for Achieving Sustainable Development Goals Across Diverse Sectors," ICTACS, pp. 1935-1939. doi: 10.1109/ICTACS62700.2024.10841149.
Conference Paper	2024	A. Akhrokhujja, D. Ather, R. Chauhan, K. Joshi, G. Singh, and N. Chaudhary, "Heart Disease Prediction Using Machine Learning: A Data-Driven Approach," ICTACS, pp. 23-28. doi: 10.1109/ICTACS62700.2024.10840998.
Conference Paper	2024	P. Sagar, D. Ather, R. Kumar, S. Duggal, I. Yusupov, and V. Jain, "From Sensor Data to Smart Decisions with an Integrated Framework for Next-Generation Farming Systems," ICTACS, pp. 1924-1929. doi: 10.1109/ICTACS62700.2024.10841125.
Conference Paper	2024	P. Shokhrukh, D. Ather, R. Chauhan, K. Joshi, G. Singh, and N. Chaudhary, "Automated Kidney Disease Detection Using Machine Learning and Computer Vision Based on Radiology Image Analysis," ICTACS, pp. 575-580. doi: 10.1109/ICTACS62700.2024.10840641.
Conference Paper	2024	M. Rashidov, I. Komilov, S. Ganiev, D. Ather, N. Chaudhary, and B. Shukla, "Sound Responsive Light Systems in Different Signal Frequencies for Commercial Implementation," in <i>2024 International Conference on Communication, Computer Sciences and Engineering (IC3SE)</i> , IEEE, 2024, pp. 47-54. N. Chaudhary, R. Khan, S. Prasad, P. Agarwal, D. Ather, and R. Kler, "Machine learning approaches for early prediction of diabetes using SVM classifiers," in <i>AIP Conference Proceedings</i> , AIP Publishing, 2024.
Conference Paper	2023	D. Ather, M. Singh, K. Arora, S. Pathak, S. J. Qurashi, and A. Singh, "Predicting Future Automobile Ownership Trends in Uzbekistan Using Linear Regression," in <i>International Conference on Cyber Intelligence and Information Retrieval</i> , Springer Nature Singapore, Singapore, 2023, pp. 397-407. R. Kumar, R. L. Khan, R. Singh, A. Singh, R. Vijay, and D. Ather, "Development and Evaluation of an IoT-Based Gas Leakage Detection System Using Arduino Uno," in <i>International Conference on Cyber Intelligence and Information Retrieval</i> , Springer Nature Singapore, Singapore, 2023, pp. 307-319. D. Ather, N. Chaudhary, G. Singh, T. Beig, and R. Kler, "Enhancing Used Automobile Valuations: A Data-Cleaning and Linear Regression Approach for Predicting Prices In Competitive Market," in <i>2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)</i> , IEEE, 2023, pp. 1-5. R. Kler, D. Ather, G. Singh, N. Chaudhary, and M. Arora, "Predicting Agricultural Growth in Jizzax Region Using Advanced Machine Learning Techniques: An ARIMA-Based Approach," in <i>2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)</i> , IEEE, 2023, pp. 1-5. G. Singh, N. Chaudhary, D. Ather, R. Kler, and M. Arora, "Revolutionizing Remote Healthcare: Proposing An IoT & Arduino-Based Integrated Approach for Real-Time Health Monitoring," in <i>2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)</i> , IEEE, 2023, pp. 1-5. N. Chaudhary, G. Singh, D. Ather, R. Kler, and M. Bhandwal, "Arduino-Based Monitoring of Microclimatic Variables for Precision Agriculture in Sugarcane Cultivation," in <i>2023 4th</i>

		<p><i>International Conference on Computation, Automation and Knowledge Management (ICCAKM)</i>, IEEE, 2023, pp. 1–6.</p> <p>M. Arora, G. Singh, D. Ather, N. Chaudhary, and R. Kler, “Forecasting Inbound Tourism in Uzbekistan: Leveraging AI and ARIMA Models for Economic Growth Insights,” in <i>2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)</i>, IEEE, 2023, pp. 1–4.</p> <p>R. L. Khan, R. Singh, R. Vijay, R. Kumar, A. Singh, and D. Ather, “Evaluating the Impact of Different Routing Protocols on VANET Performance,” in <i>2023 12th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, 2023, pp. 308–314.</p> <p>R. P. Tripathi, S. K. Khatri, D. Van Greunen, and D. Ather, “Enhancing Breast Cancer Diagnosis Through Segmentation-Driven Generative Adversarial Networks for Synthetic Mammogram Generation,” in <i>2023 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)</i>, IEEE, 2023, pp. 1078–1082.</p> <p>R. P. Tripathi, S. K. Khatri, D. Van Greunen, and D. Ather, “Unleashing the Power of Machine Learning: A Precision Paradigm for Breast Cancer Subtype Classification Using Open-Source Data, with Caution on Dataset Size and Interpretability,” in <i>2023 6th International Conference on Contemporary Computing and Informatics (IC3I)</i>, IEEE, 2023, pp. 1004–1008.</p> <p>K. Arora, S. Pathak, S. J. Quraishi, A. Singh, M. Singh, and D. Ather, “Navigating the Unseen: Proposing an IoT-Based Smart Shoe with Obstacle Detection for the Visually Impaired,” in <i>2023 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)</i>, IEEE, 2023, pp. 796–801.</p> <p>S. Pathak, S. J. Quraishi, A. Singh, M. Singh, K. Arora, and D. Ather, “A Comparative Analysis of Machine Learning Models: SVM, Naïve Bayes, Random Forest, and LSTM in Predictive Analytics,” in <i>2023 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)</i>, IEEE, 2023, pp. 790–795.</p> <p>R. P. Tripathi, S. K. Khatri, D. Van Greunen, and D. Ather, “Risk Stratification of Breast Cancer Patients: Integrating Epidemiology, Risk Factors, and Prognostic Markers for Sustainable Development,” in <i>International Conference on Sustainable Development through Machine Learning, AI and IoT</i>, Springer Nature Switzerland Cham, 2023, pp. 102–110.</p>
<p>Conference Paper</p>	<p>2022</p>	<p>R. L. Khan, D. Priyanshu, D. Ather, and H. Allataifeh, “An implementation of internet of things-based live temperature and humidity monitoring system,” in <i>2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2022, pp. 277–281.</p> <p>D. Priyanshu, R. L. Khan, R. K. Matahen, and D. Ather, “Artificial intelligence optimization of load scheduling with economic load dispatch in industrial power generating units,” in <i>2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2022, pp. 1127–1133.</p> <p>D. Ather, N. Rashevskiy, D. Parygin, A. Gurtyakov, and S. Katerinina, “Intelligent assessment of the visual ecology of the urban environment,” in <i>2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS)</i>, IEEE, 2022, pp. 361–366.</p> <p>A. Chauhan, R. Gupta, P. Singh, S. Singh, D. Ather, and A. Kumar, “Trip-A Complete Tourism Solution,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p> <p>S. Burov, D. Parygin, D. Ather, N. Rashevskiy, and A. Finogeev, “Rule-based pedestrian</p>

		<p>simulation,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p> <p>T. Borges, A. Rai, D. Raj, D. Ather, and K. Gupta, “Kidney stone detection using ultrasound images,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p> <p>A. M. Malik, A. Choudhary, and D. Ather, “Forge news detection: A systematic review,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p> <p>N. Challa, K. Baishya, V. Rohatgi, K. Gupta, D. Ather, and D. Raj, “Recent advances in sign language detection: A brief survey,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p> <p>A. V Ignatyev, M. A. Kulikov, D. N. Tsapiev, V. V Tirin, and D. Ather, “Using neural networks for the classification of city roads based on satellite images and in the photographs of roads,” <i>Proceedings of the Advancement in Electronics & Communication Engineering</i>, 2022.</p>
Conference Paper	2021	<p>R. S. Shukla and D. Ather, “Simulation based protocols comparison for vehicular ad-hoc network routing,” in <i>2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2021, pp. 198–203.</p> <p>A. Rastogi, R. Singh, and D. Ather, “Sentiment analysis methods and applications—a review,” in <i>2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2021, pp. 391–395.</p> <p>A. K. Agarwal, D. Ather, R. Astya, D. Parygin, A. Garg, and D. Raj, “Analysis of Environmental Factors for Smart Farming: An Internet of Things Based Approach,” in <i>2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2021, pp. 210–214.</p> <p>H. Kumar, D. Ather, and R. Astya, “Predicting the improvement in academic performance of the student,” in <i>2021 10th International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2021, pp. 479–483.</p> <p>A. Finogeev, D. Parygin, S. Schevchenko, A. Finogeev, and D. Ather, “Collection and consolidation of big data for proactive monitoring of critical events at infrastructure facilities in an urban environment,” in <i>Creativity in Intelligent Technologies and Data Science: 4th International Conference, CIT&DS 2021, Volgograd, Russia, September 20–23, 2021, Proceedings 4</i>, Springer International Publishing, 2021, pp. 339–353.</p>
Conference Paper	2020	<p>I. S. Zelenskiy, D. S. Parygin, D. Ather, I. N. Soplyakov, A. Y. Antyufeev, and E. A. Prigarin, “Software and algorithmic decision support tools for real estate selection and quality assessment,” in <i>2020 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS)</i>, IOP Publishing, 2020, p. 012201.</p>
Conference Paper	2018	<p>K. Khan and D. Ather, “A note on routing methods to determine the shortest path in transport networks,” in <i>International Conference on Advanced Computing (ICAC). College of Computing Sciences and Information Technology (CCSIT), TeerthankerMahaveer University, Moradabad</i>, 2018.</p> <p>M. Tahira, D. Ather, and A. K. Saxena, “Modeling and evaluation of heterogeneous networks for VANETs,” in <i>2018 International Conference on System Modeling & Advancement in Research Trends (SMART)</i>, IEEE, 2018, pp. 150–153.</p>
Conference Paper	2017	<p>N. O. Dmitry Donchenkoa, N. Sadovnikovaa, D. Parygina, O. Shabalinaa, and D. Ather, “Analysis of Comments of Users of Social Networks to Assess the Level of Social Tension,” <i>Procedia Computer Science</i>, vol. 119, pp. 359–367, 2017.</p>
Conference Paper	2016	<p>A. Gupta, R. Singh, D. Ather, and R. S. Shukla, “Comparison of various routing algorithms for VANETS,” in <i>2016 international conference system modeling & advancement in research trends (SMART)</i>, IEEE, 2016, pp. 153–157.</p>

		M. Mehdi, D. Ather, M. Rababah, and M. K. Sharma, "Problems issues in the information security due to the manual mistakes," in <i>2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom)</i> , IEEE, 2016, pp. 856–863.
Conference Paper	2013	D. Ather, R. Singh, and V. Katiyar, "An Algorithm To Design Finite Automata That Accept Strings Over Input Symbol a and b Having Exactly x Number of a & y Number of b," in <i>Information Systems and Computer Networks (ISCON)</i> , 2013, pp. 1–4.
Preprint	2023	N. Gupta, Z. Ahmed, C. Vishnoi, A. K. Agarwal, and D. Ather, "Smart Road Management System with Rough Road Detection," <i>Authorea Preprints</i> , 2023.
Preprint	2022	A. Jain, A. Sarkar, D. Ather, and D. Raj, "Temperature Based Automatic Fan Speed Control System using Arduino," <i>Available at SSRN 4159188</i> , 2022.

Organizing Conferences

- **Co-Chair**, *4th International Conference on Technological Advancements in Computational Sciences (ICTACS – 2024)*, 13–15 November 2024.
- **Co-Chair**, *3rd International Conference on Technological Advancements in Computational Sciences (ICTACS – 2023)*, 1–3 November 2023.
- **Publication Chair**, *International Conference on Information Science and Communications Technologies – Applications, Trends, and Opportunities (ICISCT 2024)*, 7–8 November 2024.
- **Technical Program Chair**, *3rd IEEE International Conference on SMART-2019*, College of Computing Sciences & IT, Teerthanker Mahaveer University, **22–23 November 2019**.
- **Technical Program Chair**, *3rd IEEE International Conference on SMART-2018*, College of Computing Sciences & IT, Teerthanker Mahaveer University, **23–24 November 2018**.
- **Convener**, *International Conference "ICAC-2017"*, College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, **05 May 2018**.
- **Technical Program Chair**, *2nd IEEE International Conference on SMART-2017*, College of Computing Sciences & IT, Teerthanker Mahaveer University, **29–30 December 2017**.
- **Convener**, *International Conference "ICAC-2017"*, College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, **06 May 2017**.
- **Technical Program Chair**, *1st IEEE International Conference on SMART-2016*, College of Computing Sciences & IT, Teerthanker Mahaveer University, **25–27 November 2016**.
- **Organizing Member**, *International Conference "SMART-4"*, College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, **20–21 November 2015**.
- **Organizing Member**, *2nd IEEE International Conference on Advances in Computing & Communication Engineering (ICACCE–2015)*, **1–2 May 2015**.
- **Coordinator**, *International Conference "SMART-3"*, College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, **15–16 November 2014**.
- **Organizing Member**, *International Conference "SMART-2"*, Computer Application Department, Teerthanker Mahaveer University, **15–16 November 2013**.
- **Organizing Member**, *International Conference "SMART-1"*, Computer Application Department, Teerthanker Mahaveer University, **October 2012**.

- **Organizing Member**, *International Conference “Resurging India – Myths and Realities”*, CMCA Department, TMU, March 2012.

Workshop / FDP Attended or Organized

- Attended **NPTEL facilitation workshop** at IIT Kanpur, **3 August 2019**.
- Completed **Introduction to Automata, Languages, and Computation** (NPTEL), **June 2019**.
- Completed **Advance Diploma in NS2 Technology** from NEX-G | SKILLS, **December 2018**.
- Completed **Automated Street Lighting** (Unique Certificate Code: 38610025), **June 2019**.
- Completed a **12-week NPTEL course on “JOY of Computing Using Python”** conducted by IIT Madras, **July–October 2018**.
- Attended a **One-Week FDP on “Applications on Artificial Intelligence”** conducted by REC Banda under TEQIP III, **30 October–3 November 2018**.
- Attended a **One-Week FDP on “Network Simulator and Data Security (NSDS-2018)”** by CCSIT, **6–10 August 2018**.
- Attended a **One-Week Workshop on “Network Simulator-3 (Sim4Net2017)”** at Amity Jaipur, **4–8 December 2018**.
- Attended a **One-Week FDP on “Network Simulator-2”** by Dr. A.P.J. Abdul Kalam Technical University under TEQIP II, **12–16 July 2016**.
- Completed a **12-week NPTEL course on “Wireless Ad Hoc and Sensor Networks”** conducted by IIT Madras, **January–March 2017**.
- Participated in an **RHEL Workshop** by Keenable Software Pvt. Ltd.
- Attended an **Open Source Workshop** by Abjeet Roy (Manager: India N&E, Nepal, Bangladesh).
- Organized **RHCE Track Training** with Nilesh Singh for 112 candidates covering RHEL 5, HTTP services, Apache, MySQL on RHEL 5, Shell Scripting, DNS Configuration, RPMs, YUM installation, IP Filtering, and dual-configuration websites for both Windows and Linux.

Personal Details

- **Date of Birth:** 22nd November 1979
- **Permanent Address:**
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- **Present Address:**
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- **Languages Known:** English and Hindi
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- **Nationality:** Indian

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