


Detailed Curriculum Vitae

Full Name	:	Dr. ADWITIYA SINHA	
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Contact	:	+91-9811448990	
Designation	:	ASSOCIATE PROFESSOR	
Brief Bio	:	<p>Total International Journal Papers: 46 Total International Conference Papers: 42 Total Book Chapters: 20 Total Books: 4 (1 in press) Total Patents: 1 Grant Total Projects: 1 Ongoing, 1 Completed Total PhD Candidates Under Supervision: 5</p> <ul style="list-style-type: none"> - total PhD candidates awarded: 4 - total PhD scholars ongoing: 1 <p>Total MTech. Thesis Supervised: 21 Total M.Sc. Thesis Supervised: 30 Total Invited Talks: 46 Total Seminars/Conferences/Workshops/FDP Organized: 19 Best Paper Awards: 4 Young Scientist Award: 1 International Recognition: IEEE Senior Member, New York, USA (since 2019) ACM Senior Member, New York, USA (since 2025) Other Recognition: M.Tech. First Rank Holder (Topper of Batch 2008-2010)</p>	
Orcid ID	:	orcid.org/0000-0002-9870-7383	
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Google Scholar	:	scholar.google.co.in/citations?user=q2MR7TcAAAAJ&hl (h-Index: 16, i10-index: 30)	
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Brief Biography	:	<p>Dr. Adwitiya Sinha is working as Associate Professor in the School of Computer and Information Sciences, IGNOU, New Delhi, India. She is serving academics and research since 2013 in the domain of computer science. During the research career in Jawaharlal Nehru University (JNU, New Delhi) since 2008, she received First Rank certificate (<i>Gold Medallist</i>) in M.Tech. batch 2008-2010. She was also awarded with Senior Research Fellowship (SRF) by Council of Scientific and Industrial Research (CSIR) in 2012 for her doctoral research in JNU. She has <i>published more than 110 articles</i> as international journals, conferences, books, and chapters. Also, she has participated</p>	

	<p>in organizing international conferences and special sessions. She guided more than 20 M.Tech. dissertation as well as industrial thesis, 30 M.Sc. projects, and many undergraduate minor and major projects in AI and allied areas. She has a patent grant and 2 funded projects. She is supervisor to 5 PhD scholars in the field of data science, AI and social networks. She is ACM and IEEE Senior Member, New York, USA, in recognition of her research contributions. Her research expertise revolves around machine learning, data science, data mining, network analytics, graph theory, explainable AI, and open source programming. Her expertise further caters to cross-disciplinary applications, mainly including social networks, environmental data science, intelligent transportation, smart healthcare, and knowledge network analysis.</p>
<p>Work Experience</p>	<p>:</p> <ul style="list-style-type: none"> • Associate Professor in School of Computer and Information Sciences, Indira Gandhi National Open University, Maidan Garhi, New Delhi, June 2026 to till date • Associate Professor in Department of Natural and Applied Sciences, TERI School of Advanced Studies, Plot-10, Institutional Area, Vasant Kunj, New Delhi, Feb 2024 to Jun 2026 • Associate Professor in Department of Computer Science and Engineering & Information Technology, Jaypee Institute of Information Technology, A-10, Industrial Area, Noida-62, Uttar Pradesh, Feb 2022 to Feb 2024 • Assistant Professor in Department of Computer Science and Engineering & Information Technology, Jaypee Institute of Information Technology, A-10, Industrial Area, Noida-62, Uttar Pradesh, Feb 2013 to Jan 2022
<p>Interest Areas</p>	<p>:</p> <ul style="list-style-type: none"> • Applied Data Science • Data Analytics and Visualization • Applied AI and Machine Learning • Large Scale Graph Algorithms • Network Science & Analysis • Social Network Analysis • Performance Evaluation of Computing Systems
<p>Projects</p>	<p>:</p> <ul style="list-style-type: none"> • Project Title: Machine Learning Strategies for Analyzing and Detecting Misinformation Propagation on Social Web. Grant Received from Internal Grant Committee (IGC), TERI School of Advanced Studies, Sole-PI, Duration: 12 Months, Amount: 2,00,000 INR, Date of Grant: 18-June-2025 (25IGC003), Status: <i>Completed</i> • Project Title: AI-Centric Modeling for Detection of Social Media Malicious Activities. Grant Received from Council of Science and Technology, UP, Co-PI, Duration: 24 Months, Amount: 7,32,000 INR, Date of Grant: 22-August-2025 (CST/D-1199), Status: <i>Ongoing</i>
<p>Publications</p>	<p>:</p> <p>International Journals (chronologically):</p> <ol style="list-style-type: none"> 1. Pratibha Joshi, Amulya Saxena, Manoj Kumar Singh, Adwitiya Sinha, "SCGAT: A self-supervised contrastive graph attention framework for community detection in attributed networks," <i>Chaos, Solitons and Fractals, Elsevier</i>, vol. 208, part 3, number 118293, June 2026 [SCI Indexed, Scopus Indexed, Impact Factor: 5.7] (ISSN: 1868-5137) (H-Index: 185) (SJR: 1.123) (doi: 10.1016/j.chaos.2026.118293) 2. Bhawna Saxena, Adwitiya Sinha, Himansu Sekhar Pattanayak, Anokh Kishore, Debasish Paul, "Discovering centrality clusters in social and interaction networks using AI-driven association analysis," <i>Applied Network Science, Springer</i>, vol. 11,

article number 44, 30 April 2026 [SCI Indexed, Scopus Indexed, Impact Factor: 1.5] (ISSN: 2364-8228) (H-Index: 36) (SJR: 0.481) (doi: 10.1007/s41109-026-00794-3)

3. Sarishty Gupta, Adwitiya Sinha, Bhawna Saxena, "Malicious bot detection in Twitter/X social media platform with interpretable machine intelligence," *Journal of Ambient Intelligence and Humanized Computing, Springer*, vol 17, pp. 429-444, 30 Jan 2026 [Scopus Indexed] (ISSN: 1868-5137) (doi: 10.1007/s12652-026-05039-w) (H-Index: 97) (SR: 0.760) (Link: link.springer.com/article/10.1007/s12652-026-05039-w)
4. Shivendra K. Pandey, Adwitiya Sinha, B. Singh, "Fuzzy-Based Optimized Cluster Head Selection with Energy Prediction for Unequal Clustering in Wireless Sensor Networks," *International Journal of Distributed Sensor Networks, Wiley*, vol. xx, pp. 1-20, Dec 2025 [SCIE, Scopus Indexed, Impact Factor: 2.5] (ISSN: 1550-1477) (doi: 10.1155/dsn/4635198) (H-Index: 77) (SJR: 0.574) (Link: onlinelibrary.wiley.com/doi/10.1155/dsn/4635198)
5. Harshit Gujral, Somya Jain, Adwitiya Sinha, "Network analysis of ground-level ozone: Implications for environmental policy and air quality management," *Environmental Modelling & Software, Elsevier*, vol. 191, no. 106502, pp. 1-16, June 2025 [SCIE, Scopus Indexed, Impact Factor: 5.2] (ISSN: 1873-6726) (doi: 10.1016/j.envsoft.2025.106502) (H-Index: 190) (SJR: 1.344)
6. Suruchi Sabherwal, Bhawna Saxena, Adwitiya Sinha, "Black Marketed Collusive Users Primary Dataset from Twitter/X Online Social Media," *Social Network Analysis and Mining, Springer*, vol. 14, no. 215, pp. 1-19, September 2024 [SCIE, Scopus Indexed, Impact Factor: 2.8] (ISSN: 1869-5469) (doi: 10.1007/s13278-024-01373-z) (H-Index: 48) (11-Nov-2024)
7. M. Niranjan, B. Singh, Adwitiya Sinha, "An Enhanced Localization Algorithm for 3D Wireless Sensor Networks using Group Learning Optimization," *Sadhana, Springer*, volume 49, article number 248, pp 1-20, September 2024 [SCIE, Scopus Indexed, Impact Factor: 1.4] (ISBN: 0973-7677) (doi: 10.1007/s12046-024-02588-8) (03-09-2024) (H-Index: 59) (SJR: 0.34)
8. Mansi Gupta, Adwitiya Sinha, "Nature inspired recommendation with path optimization for online social network communities," *International Journal of Information Technology, Springer*, volume 16, pp. 5325-5330, July 2024 [Scopus Indexed] (ISBN: 2511-2112) (doi: 10.1007/s41870-024-01866-2) (04-07-2024) (location: New Delhi) (H-Index: 34) (SJR: 0.71)
9. Naman Saxena, Sakshi Agarwal, Adwitiya Sinha, "COBAC: An Adaptive Transshipment Station Localization for Reducing IUU Fishing Practices," *Wireless Personal Communications Journal, Springer*, volume 135, pp. 261-283, April 2024 [SCIE, Scopus Indexed, Impact Factor: 2.2] (ISBN: 0929-6212) (doi: 10.1007/s11277-024-10974-y) (26-04-2024) (H-Index: 82) (SJR: 0.59)
10. Akansha Agarwal, Shreeji, Ravi Jain, Meeta Chaudhry, Adwitiya Sinha, "Smart Aviation with Customized Route Discovery using Urban Transportation Analytics," *International Journal of Intelligent Transportation Systems Research, Springer*, vol. 22, pp. 229-244, March 2024 [Scopus, SCIE Indexed, Impact Factor: 1.5] (ISSN: 1868-8659) (UGC: 22990) (H-Index: 21) (doi: 10.1007/s13177-024-00390-8) (02-03-2024)
11. Himansu Sekhar Pattanayak, Bhawna Saxena, Adwitiya Sinha, "Influence Maximization in Social Networks Using Community-Diversified Seed Selection," *Journal of Complex Networks, Oxford Academic*, vol. 12, issue 1, pp. 1-21, February

2024 [Scopus, SCIE Indexed, Impact Factor: 1.9] (ISSN: 2051-1329) (UGC: 6862) (H-Index: 27) (doi: 10.1093/comnet/cnae008) (20-Feb-2024)

12. Preeti Saini, Rishipal Singh, Adwitiya Sinha, "Path Loss Assessment of Electromagnetic Signal on Air-Sea & Air-Soil Boundary in Sensor Networks," *International Journal of System Assurance Engineering and Management, Springer*, vol. 15, pp. 2238–2247, January 2024 [Scopus, SCIE Indexed, Impact Factor: 1.4] (ISSN: 0975-6809) (UGC: 7649) (H-Index: 24) (doi: 10.1007/s13198-023-02239-x) (24-Jan-2024)
13. Naman Saxena, Adwitiya Sinha, Tanishk Bansal, Ankita Wadhwa, "A Statistical Approach for Reducing Misinformation Propagation on Twitter Social Media," *Information Processing and Management, Elsevier*, vol. 60, issue 4, no. 103360 [Scopus, SCIE Indexed, Impact Factor: 8.1], pp. 1-19, 2023 (ISSN: 1873-5371) (H-Index: 104) (01-July-2023) (doi: 10.1016/j.ipm.2023.103360)
14. Somya Jain, Adwitiya Sinha, "TriBeC: Identifying Influential Users on Social Network with Upstream & Downstream Network Centrality," *International Journal of General Systems, Taylor & Francis* [Scopus, SCIE Indexed, Impact Factor: 2.9], vol. 52, issue 3, pp. 275-296, 2023 (ISSN: 0308-1079) (H-Index: 51) (04-Apr-2023) (doi: 10.1080/03081079.2023.2194642)
15. Somya Jain, Adwitiya Sinha. "Deep Learning Intelligence for Influencer-based Topological Classification for Online Social Networks," *International Journal of Innovative Computing & Applications, Inderscience*, volume 14, number 4, pp. 211-219, October 2023 [Scopus Indexed] (ISSN: 1751-6498) (H-Index: 17) (13-Oct-2023) (doi: 10.1504/IJICA.2023.134212)
16. Megha Rathi, Adwitiya Sinha, Siddhant Tulsyan, Avishka Agarwal, Anushka Srivastava, "Assessing Mental Health Crisis in Pandemic Situation with Computational Intelligence," *Informatica*, vol. 47, pp. 131-140, 2023 [Scopus Indexed], (ISSN: 0350-5596) (H-Index: 26) (15-May-2023) (doi: 10.31449/inf.v47i1.3902)
17. Sejal Chandra, Adwitiya Sinha, "Signed Integrated PageRank for Rapid Information Diffusion in Online Social Networks," *Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Springer*, vol. 47, pp. 789–801, October 2022 [SCIE, Scopus Indexed, Impact Factor: 1.4] (ISSN: 2364-1827) (doi: 10.1007/s40998-022-00551-z) (H-Index: 16) (08-October-2022)
18. Suruchi Gera, Adwitiya Sinha, "T-Bot: AI-based Social Media Bot Detection Model for Trend-centric Twitter Network," *Social Network Analysis and Mining, Springer*, vol. 12, no. 76, pp. 1-21, July 2022 [SCIE, Scopus Indexed, Impact Factor: 2.8] (ISSN: 1869-5469) (doi: 10.1007/s13278-022-00897-6) (H-Index: 38) (09-July-2022)
19. Mayuri Gupta, Adwitiya Sinha, "Multi-Class Autoencoder-Ensembled Prediction Model for Detection of COVID-19 Severity," *Evolutionary Intelligence, Springer*, volume 16, pp. 1433–1445, 2022 [SCIE, Scopus Indexed, Impact Factor: 2.6] (ISSN: 1864-5917) (doi: 10.1007/s12065-022-00744-9) (H-Index: 48) (SJR: 0.7) (02-July-2022)
20. Suruchi Gera, Adwitiya Sinha, "C-ANN: a deep leaning model for detecting black-marketed colluders in Twitter social network," *Neural Computing & Applications, Springer*, vol. 34, issue 18, pp. 15113–15127, 2022 [Scopus Indexed] (ISSN: 0941-0643) (doi: 10.1007/s00521-021-06756-3) (H-Index: 166) (SJR: 1.067) (20-Jan-2022)
21. Rachit Shukla, Adwitiya Sinha, Ankit Chaudhary, "TweezBot: An AI-Driven Online Media Bot Identification Algorithm for Twitter Social Networks," *Electronics*, vol. 11, no. 5: 743, pp. 1-21, 2022 [SCIE, Scopus Indexed, Impact Factor:

- 2.9] (ISSN: 2079-9292) (doi: 10.3390/electronics11050743) (H-Index: 137) (SJR: 0.623) (28-Feb-2022)
22. Deepanshi, Adwitiya Sinha, "Self-Aware Contextual Behavior Analysis for Service Quality Assurance over Social Networks," *Journal of Cases on Information Technology, IGI Global*, vol. 24, issue 3 pp. 1-23, 2022 [Scopus Indexed] (ISSN: 1548-7725) (doi: 10.4018/JCIT.20220701.oa8) (H-Index: 15) (01-Feb-2022) (SJR: 0.46)
 23. Adwitiya Sinha, "PSIR: A Novel Phase-wise Diffusion Model for Lockdown Analysis of COVID-19 Pandemic in India," *System Assurance Engineering & Management, Springer*, vol. 13, pp. 1356-1369, October 2021 [Scopus, SCIE Indexed, Impact Factor: 1.6] (ISSN: 0975-6809) (doi: 10.1007/s13198-021-01477-1) (H-Index: 52) (SJR: 0.386) (28-Oct-2021)
 24. Somya Jain, Adwitiya Sinha, "Discovering influential users in social network using weighted cumulative centrality", *Concurrency and Computation: Practice and Experience, Wiley*, Vol. 34, issue 1, pp.1-20, 2021 [Scopus, SCIE Indexed, Impact Factor: 2.2] (ISSN: 1532-0634) (doi: 10.1002/cpe.6521) (H-Index: 89) (16-Aug-2021) (SJR: 0.447)
 25. Suruchi Gera, Adwitiya Sinha, "A Machine Learning-based Malicious Bot Detection Framework for Trend-centric Twitter Stream," *Journal of Discrete Mathematical Sciences & Cryptography, Taylor & Francis*, volume 24, issue 5, pp. 1337-1348, 2021 [Scopus Indexed] (ISSN: 0972-0529) (doi: 10.1080/09720529.2021.1932923) (H-Index: 35) (02 Sep 2021) (SJR: 0.308)
 26. Meeta Gupta, Adwitiya Sinha, "Distributed Temporal Data Prediction Model for Wireless Sensor Network," *Wireless Personal Communications, Springer*, vol. 119, no. 4, pp. 3699-3717, 2021 [SCIE, Scopus Indexed, Impact Factor: 2.9] (ISBN: 0929-6212) (doi: 10.1007/s11277-021-08427-x) (H-Index: 62) (26-03-2021) (SJR: 0.57)
 27. Adwitiya Sinha, Megha Rathi, "COVID-19 Prediction using AI Analytics for South Korea," *Applied Intelligence, Springer*, vol. 51, no. 12, pp. 8579-8597, 2021 [SCI, SCIE, Scopus Indexed, Impact Factor: 3.5] (ISBN: 1573-7497) (doi: 10.1007/s10489-021-02352-z) (H-Index: 119) (08-April-2021) (SJR: 0.889)
 28. Harshit Gujral, Adwitiya Sinha, "Association between Exposure to Airborne Pollutants & COVID-19 in Los Angeles, United States with Ensemble-based Dynamic Emission Model," *Environmental Research, Elsevier*, volume 194, no. 110704, pp. 1-12, 2021 [SCIE Indexed, Impact Factor: 8.2, Scopus] (ISBN: 0013-9351) (doi: 10.1016/j.envres.2020.110704) (H-index: 217) (01-03-2021) (SJR: 1.836)
 29. Meeta Gupta, Adwitiya Sinha, "Enhanced-AES encryption mechanism with S-box splitting for wireless sensor networks," *International Journal of Information Technology, Springer*, volume 13, pp. 933-941, 2021 [Scopus Indexed] (ISBN: 2511-2112) (doi: 10.1007/s41870-021-00626-w) (25 February 2021) (H-Index: 59) (SJR: 0.839)
 30. Pawan Kumar, Adwitiya Sinha, "Information Diffusion Modeling & Analysis for socially interacting networks," *Social Network Analysis & Mining, Springer*, volume 11, no. 11, pp. 1-18, 2021 [SCIE, Scopus Indexed, Impact Factor: 2.8] (ISBN: 1869-5469) (doi: 10.1007/s13278-020-00719-7) (H-Index: 61) (09-01-2021) (SJR: 0.675)
 31. Avneet Kaur, Adwitiya Sinha, "Multi-Contextual Spammer Detection for Online Social Network," *Journal of Discrete Mathematical Sciences and Cryptography, Taylor & Francis*, vol. 24, issue 3, pp. 777-786, 2021 [Scopus Indexed] (ISSN: 0972-0529) (doi: 10.1080/09720529.2020.1794517) (H-Index: 35) (19 Jan 2021) (SJR: 0.308)

32. Meeta Gupta, Adwitiya Sinha, "Particle Swarm Optimization Based Data Aggregation in Wireless Sensor Network," *International Journal of Swarm Intelligence Research*, volume 12, issue 1, pp. 1-16, 2021 [Scopus, ESCI Indexed] (ISSN: 1947-9263) (doi: 10.4018/IJSIR.2021010101) (H-Index: 14) (01-01-2021) (SJR: 0.250)
33. Ankit Kumar, Dipansha Chhabra, Bhavya Mendiratta, Adwitiya Sinha, "Potential Extensions & Updates in Social Media for Twitter Developers," *International Journal of Performability Engineering*, volume 16, issue 8, pp. 1139-1150, 2020 [Scopus Indexed] (ISSN: 0973-1318) (doi: 10.23940/ijpe.20.0 8.p1.11391150) (H-Index: 32) (31-07-2020) (SJR: 0.245)
34. Preeti Saini, Rishipal Singh, Adwitiya Sinha, "Influence of Aquatic Parameters on Path Loss in Undersea Communication for Wireless Acoustic Sensor Networks," *International Journal of Communication Networks and Distributed Systems, Inderscience*, 2020, volume 25, no. 4, pp. 366-384, 2020 [Scopus Indexed] (ISBN: 1754-3924) (UGC: 2746) (doi: 10.1504/IJCND.2020.110520) (H-Index: 22) (08-May-2020) (SJR: 0.240)
35. Somya Jain, Adwitiya Sinha, "Identification of Influential Users on Twitter: A novel weighted correlated influence measure for Covid-19," *Chaos, Solitons & Fractals, Elsevier*, volume 139, no. 110037, pp. 1-8, 2020 [Scopus, SCI Indexed, Impact Factor: 5.7] (ISSN: 0960-0779) (doi: 10.1016/j.chaos.2020. 110037) (H-Index: 185) (20-June-2020) (SJR: 1.123)
36. Meeta Gupta, Adwitiya Sinha, "Recursive Density-based Hierarchical Clustering in Gaussian Distributed Sensor Network," *System Assurance Engineering & Management, Springer*, vol. 14, pp. 19-28, 2020 [Scopus, SCIE Indexed, Impact Factor: 1.6] (ISSN: 0975-6809) (doi: 10.1007/s13198-020-01009-3) (H-Index: 52) (26-June-2020) (SJR: 0.386)
37. Aakash Suryan, Chaitanya Kumar, Mansi Mehta, Rajat Juneja, Adwitiya Sinha, "Learning Model for Phishing Website Detection," *EAI Endorsed Transactions on Scalable Information Systems*, volume 7, no. 27, pp. 1-9, 2020 [WoS, ESCI Indexed] (ISSN: 2032-9407) (doi: 10.4108/eai.13-7-2018.163804) (H-Index: 21) (13-03-2020)
38. Amrit Kaur Saggu, Adwitiya Sinha, "Social Influence Analysis for Information Diffusion in Complex Commercial Network," *International Journal of Knowledge and Systems Science*, Vol. 11, Issue. 1, pp. 22-59, 2020 [Scopus, ESCI Indexed] (ISSN: 1947-8208) (UGC: 47693) (doi: 10.4018/IJKSS.2020010102) (H-Index: 12) (SJR: 0.187) (01-01-2020)
39. Preeti Saini, Rishi Pal Singh, Adwitiya Sinha, "Survey of Radio Propagation Models for Acoustic Applications in Underwater Wireless Sensor Network," *International Journal of Sensors, Wireless Communications & Control*, 2019, volume 11, issue 1, pp. 42-53 [Scopus Indexed] (ISSN: 2210-3279) (doi: 10.2174/2210327909666191127093403) (H-Index: 18) (27-Nov-2019) (SJR: 0.210)
40. Somya Jain, Adwitiya Sinha, "Social Network Sustainability for Transport Planning with Complex Interconnections," *Sustainable Computing: Informatics and Systems, Elsevier*, Vol. 24, No. 100351, pp. 1-9, 2019 [SCIE, Scopus Indexed, Impact Factor: 6.2] (ISBN: 2210-5379) (doi: 10.1016/j.suscom.2019.100351) (H-Index: 64) (01-December-2019) (SJR: 1.071)
41. Shalini Yadav, Adwitiya Sinha, Pawan Kumar, "Multi-Attribute Identity Resolution for Online Social Network," *Springer Nature Applied Sciences, Springer*, Vol. 1, Issue 12, pp. 1-15, 2019 [Scopus, SCIE Indexed, Impact Factor: 2.8] (ISSN: 2523-3971) (doi: 10.1007/s42452-019-1701-z) (H-Index: 28) (21-11-2019) (SJR 0.34)

42. Priyanka Jaiswal, Adwitiya Sinha, "Stable Geographic Forwarding with Link Lifetime Prediction in Mobile Adhoc Networks for Battlefield Environment," *Human-centric Computing and Information Sciences Journal, Springer*, Vol. 6, Issue 22, 2016, pp. 1-18 [SCIE, Scopus Indexed, Impact Factor: 2.9] (ISBN: 2192-1962) (doi: 10.1186/s13673-016-0078-x) (H-Index: 40) (10-12-2016) (SJR: 0.57)
43. Adwitiya Sinha, D. K. Lobiyal, "Prediction Models for Energy Efficient Data Aggregation in Wireless Sensor Network," *Wireless Personal Communications Journal, Springer*, Vol. 84, Issue 2, 2015, pp. 1325-1343 [SCIE, Scopus Indexed, Impact Factor: 2.2] (ISBN: 0929-6212) (doi: 10.1007/s11277-015-2690-x) (H-Index: 100) (23-05-2015) (SJR: 0.49)
44. Adwitiya Sinha, D K Lobiyal, "Probabilistic Data Aggregation in Information-based Clustered Sensor Network", *Wireless Personal Communications Journal, Springer*, Vol. 77, Issue 2, pp. 1287-1310, 2014 [SCIE, Scopus Indexed, Impact Factor: 2.2] (ISBN: 0929-6212) (UGC: 33023) (doi: 10.1007/s11277-013-1566-1) (H-Index: 100) (01-07-2014) (SJR: 0.49)
45. Adwitiya Sinha, D K Lobiyal, "A Multi-Level Strategy for Energy Efficient Data Aggregation in Wireless Sensor Networks", *Wireless Personal Communications Journal, Springer*, Vol. 72, Issue 2, 2013, pp. 1513-1531, 2013 [SCIE, Scopus Indexed, Impact Factor: 2.2] (ISBN: 0929-6212) (doi: 10.1007/s11277-013-1093-0) (H-Index: 100) (01-09-2013) (SJR: 0.49)
46. Adwitiya Sinha, D. K. Lobiyal, "Performance Evaluation of Data Aggregation for Cluster-Based Wireless Sensor Network," *Human-centric Computing and Information Sciences Journal, Springer*, Vol. 3, Issue 13, pp. 1-17, 2013 [SCIE, Scopus Indexed, Impact Factor: 2.9] (ISBN: 2192-1962) (doi: 10.1186/2192-1962-3-13) (H-Index: 62) (29-08-2013) (SJR: 0.57)

International Conferences:

1. Amulya Saxena, Pratibha Joshi, Adwitiya Sinha, "A Topological Framework for Human-Bot Classification in Social Networks using AutoML Optimization," *Springer 11th International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2026)*, Springer LNNS Series, Bangkok, Thailand April 9-11, 2026, pp. 1-13 (Scopus Indexed) (Accepted & Presented on 11-April-2026)
2. Suruchi Gera, Mou Dutta, Adwitiya Sinha, "Unveiling Knowledge Insights from Large-Scale Knowledge Graphs for the Research Community" in *IEEE International Conference on Computing, Communication, Control and Cyber-Physical Systems (I5CPS-2026)*, Karaikal, Puducherry, India, 2026, pp. 1-6, (Scopus Indexed), (doi: 10.1109/I5CPS67958.2026.11452418)
3. Goutham G.S. Nair, Ankith Chengappa, Ashwin Santosh, Ayush J, Suruchi Sabherwal, Adwitiya Sinha, "High-Precision Traffic Accident Detection Using YOLOv11 Model and Image Processing with Deep Learning Techniques," In *10th National Conference on Computer Vision, Pattern Recognition, Image Processing, and Graphics (NCVPRIPG 2025)*, 16-18 July, 2025, Indian Institute of Technology-Jammu, pp-1-6, In International Proceedings of CCIS, Springer (Scopus Indexed), pp. 376-384, Published in January 2026, (doi: 10.1007/978-3-032-08511-5_27) (Link: link.springer.com/chapter/10.1007/978-3-032-08511-5_27)
4. Amulya Saxena, Adwitiya Sinha, Bhawna Saxena, "Prediction of Crime Trends and Dynamics with Geospatial and Network-based Analysis," In *IEEE International Conference on Contemporary Computing*, 7-9 August, 2025 pp. 1-6,

Published in December 2025 (Scopus Indexed) (doi: 10.1109/IC366947.2025.11290387) (Link: ieeexplore.ieee.org/document/11290387)

5. Bhavya Saini, Adwitiya Sinha, "Modeling Course-Skill Relationship with Association Mining and Weighted Knowledge Graphs," In *IEEE International Conference on Contemporary Computing*, 7-9 August, 2025, pp. 1-6, Published in December 2025 (Scopus Indexed) (doi: 10.1109/IC366947.2025.11290682) (Link: <https://ieeexplore.ieee.org/document/11290682>)
6. Suruchi Gera, Adwitiya Sinha, "Hybrid Link Prediction Model with Explainable AI for Online Social Networks," *IEEE International Conference on Computing for Sustainability and Intelligent Future (COMP-SIF)*, 20-21 March, 2025, ISSN: 9798331538538, BMS Institute of Technology & Management, BMS Institute of Technology & Management, Bengaluru, India, pp. 1-6, Published: 28-April-2025, doi: 10.1109/COMP-SIF65618.2025.10969946 (Scopus Indexed)
7. Prerit Sharma, Bhawna Saxena, Rhythm, Rajat Khandelwal, Adwitiya Sinha, "Geological Time Series Analysis for Spatial Seismic Forecasting in Japan," *The Global AI Summit 2024 (AISUMMIT-2024), IEEE International Conference on Artificial Intelligence and Emerging Technology*, 4-6 September 2024, ISSN: 9798350379716, Bennett University, Greater Noida, Uttar Pradesh, India, pp. 1-6, Published: 9-April-2025, doi: 10.1109/GlobalAISummit62156.2024.10947905 (Scopus Indexed) (Presented & Accepted)
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Book Chapters:

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2. Megha Rathi, Harikesh Pratap Singh, Kaustubh Pandey, Harsh Dhanwani, Adwitiya Sinha, "A Hybrid Framework for Detection and Diagnosis of Plant Diseases Using Retrieval Augmented Generative AI," In Book: *Generative Artificial Intelligence Technology and Applications, CRC Press, Taylor & Francis Group*, pp. 1-22, December 2025, (ISBN: 9781003565703) (link: [taylorfrancis.com/chapters/edit/10.1201/9781003565703-15/hybrid-framework-detection-diagnosis-plant-diseases-using-retrieval-augmented-generative-ai-megha-rathi-harikesh-pratap-singh-kaustubh-pandey-harsh-dhanwani-adwitiya-sinha](https://www.taylorfrancis.com/chapters/edit/10.1201/9781003565703-15/hybrid-framework-detection-diagnosis-plant-diseases-using-retrieval-augmented-generative-ai-megha-rathi-harikesh-pratap-singh-kaustubh-pandey-harsh-dhanwani-adwitiya-sinha))
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Books:

1. (Edited) Akansha Singh, Parul Agarwal, Arpita Jadhav Bhatt, Adwitiya Sinha, "Exploring AI-Driven Insights for Transforming Digital Commerce," Eds., *Scrivener Publishing, Wiley*, 1st Edition, 250 pages, 2025 (ISBN xxx) (doi: xxx) (Forthcoming December 2026, *in press*)
2. (Authored) Adwitiya Sinha, Manju, Samayveer Singh, "Metaheuristics and Reinforcement Techniques for Smart Sensor Applications," *Taylor & Francis Group*, Chapman and Hall, CRC Press, 248 pages, 2024 (ISBN: 9781032542355) (doi: 10.1201/9781032542355) (October 2024)
3. (Edited) Megha Rathi, Adwitiya Sinha, "Advanced Computational Techniques for Sustainable Computing," Eds., *Taylor & Francis Group*, Chapman and Hall, CRC Press, 338 pages, 2022 (ISBN: 9781003046431) (doi: 10.1201/9781003046431) (June 2022)
4. (Edited) Adwitiya Sinha, Megha Rathi, "Smart Healthcare Systems," Eds., *Taylor & Francis Group*, Chapman and Hall, CRC Press, 1st Edition, 248 pages, Catalogue Number K405452, 2019 (ISBN 9780429020575) (doi: 10.1201/9780429020575) (August 15, 2019)

Patents:

1. Adwitiya Sinha, Shardha Porwal, "Automated Retractable Writing Instrument," Filed on 27th January 2017, Status: Grant, Date: 03/08/2018, Application No.: 201711003066 (FER Filed 2021), Grant Date: 15-April-2024

Newsletter Articles:

1. Invited Article on "Digital Education," *Published by UGC in CEC Newsletter*, 03-March 2018 (www.cec.nic.in/cec/sites/default/publication/newsletter/CECNEWSMARCH2018.pdf)
2. Article on "Realizing Equal Opportunities for Sustainable Development of Rural Women in India," *Published by Indus Scrolls Press*, 24-January-2022 (<https://indusscrolls.com/realizing-equal-opportunities-for-sustainable-development-of-rural-women-in-india/>)

Invited Talks:

1. Invited Talk in 2-Week Summer School on Emerging Paradigms in Artificial Intelligence and Generative AI, 29th June to 11th July 2026 at Computer Science and Engineering & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. Talk Title: "Predictive Modeling in Environmental Systems and Groundwater Analysis" (3rd July 2025)
2. Invited Talk on "Automated Machine Learning with Network Science for Social Graphs," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (7th August, 2025)
3. Invited Talk in 1-Week FDP on Next-Gen AI: Cutting-Edge Trends in Machine Learning and Generative AI, 30th June to 5th July 2025 at CSE & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. Talk Title: "Advancing Network Science through Social Graph Analysis with AutoML." (1st July 2025)

4. Expert Talk in IEEE 3rd International Conference on Networks and Cryptology (NetCrypt 2025), 29-31 May 2025, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi. Talk Title: "Network Science and Applications." (30-May-2025)
5. Invited Talk on "Machine Learning and Explainable AI - Part V & VI," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (29th January, 2025)
6. Invited Talk on "Machine Learning and Explainable AI - Part III & IV," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (30th December, 2024)
7. Invited Talk on "Machine Learning and Explainable AI - Part I & II," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (27th December, 2024)
8. Invited Talk to Indian Oil Corporation Limited (IOCL) Newly Recruited Officers on Lifestyle for Environment (LiFE) - A sustainable development practice, IOCL, New Delhi (9-10, 12-13 December 2024)
9. Invited talk on "Network Science for Sustainable Applications with Case Studies - Part III & IV," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (26th November, 2024)
10. Invited talk on "Network Science for Sustainable Applications with Case Studies - Part I & II," Swayam Prabha Live Telecast, CEC, UGC, New Delhi (23rd October, 2024)
11. Invited Talk in 2-Weeks Faculty Development Programme (Summer School) on Emerging Trends in Software Development: Tools and Technique, 1st July - 13th July, 2024 at Department of CSE & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. Talk title: "Exploring Machine Intelligence with Explainable AI," 9th July, 2024.
12. Invited Talk in 1-Week Faculty Development Programme on Autonomous AI for Sustainable Development (AAISD - 2024), 3rd Jun - 08th June 2024 at Department of CSE & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. Talk title: "Exploring SDGs for Societal Applications with Network Science Case Studies" (3rd June, 2024)
13. Invited Talk and Hands-on Session in 2-weeks Atal FDP on Applied Data Science with Machine Learning. Talk title: "Influential Node Analysis in Large-scale Graphs" in Department of Computer Science and Engineering, Indira Gandhi Delhi Technical University for Women, New Delhi, 9th February 2023
14. Resource Person in One Week 1st Jaypee Education Synergy Teachers' Training Programme for Post Graduate Teachers (PGT), Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, Delivered lectures on: Artificial Intelligence Lifecycle Phases, Hands-on Python Basics & Libraries, File Handling in Python, Socket Programming in Python, 22nd May 2023 (6 hrs)
15. Invited Talk on "Twitter Social Network Analysis," Bhaskar Institute of Mass Communication and Journalism of Bundelkhand University, Jhansi, Uttar Pradesh, 10th December 2022

16. Invited Talk on "Performance Analysis of Computing Systems," Rustamji Institute of Technology, BSF Academy, Tekanpur, Gwalior, Madhya Pradesh, 8th December, 2022
17. Invited Talk on "Data Analytics for Large-Scale Graphs," in Women in STEM (Science, Technology, Engineering & Math) Series, JSS Academy of Technical Education, Noida, Uttar Pradesh, 6th October 2022.
18. Invited Talk on "Discovering Influential Customers for Online Retail Marketing," in Retail Management Program, Birla Institute of Management Technology, Greater Noida, Uttar Pradesh, 8th September 2022.
19. Invited Talk on "Network Science and Applications in Large Scale Graphs," 5th International Conference on Recent Advances in Mathematical Sciences with Applications in Engineering and Technology, School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi, 16th - 18th June, 2022 (17th June 2022)
20. Resource Person in One Week 1st Jaypee Education Synergy Teachers' Training Programme for Post Graduate Teachers (PGT), Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, Delivered lectures on: Artificial Intelligence Lifecycle Phases, Hands-on Python Basics & Libraries, File Handling in Python, Socket Programming in Python, 23rd - 28th May 2022
21. Invited Talk on "Large Scale Graph Analytics," 2nd International Conference on Networks and Cryptology, School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, 4th - 6th December, 2020 (6th December 2020)
22. Invited Talk on "Online Social Network," 2nd Refresher Course in E- Learning & E-Governance (Interdisciplinary), UGC-HRDC, Jawaharlal Nehru University, New Delhi, 19th August - 30th August 2019 (26th August 2019)
23. Invited Talk on "Social Media, Networking & Analysis," Performance Analysis of Computing Systems Series, EDUSAT, CEC, UGC, New Delhi (24th June 2019)
24. Invited Talk on "Social Network Analysis," 5th Refresher Course in Contemporary Studies (Interdisciplinary), UGC-HRDC, Jawaharlal Nehru University, New Delhi, 31st December - 25th January 2019 (21st January 2019)
25. Conducted hands-on session, "Data Analytics," for Workshop on "Big Data Systems, Tools and Applications," Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, (18th December, 2018)
26. Invited Talk on "Social Media Research," Orientation Program 2018, Maakhanlal Chaturvedi University (MCU), Bhopal (29th August, 2018)
27. Invited Talk on "Applications for E-learning," First Refresher Course in E-Learning & E-Governance, UGC-HRDC, Jawaharlal Nehru University, New Delhi, 23rd July - 17th August, 2018 (10th August 2018)
28. Invited Talk on "E-learning Technologies," First Refresher Course in E-Learning & E-Governance, UGC-HRDC, Jawaharlal Nehru University, New Delhi, 23rd July - 17th August, 2018 (27th July 2018)
29. Invited Talk on "Random Variables & Inequalities," Performance Analysis of Computing Systems Series, EDUSAT, CEC, UGC, New Delhi (13th April 2018)

30. Invited Talk on "Social Media & Networking," National Seminar on Applications & of Graphs & Networks in Computational Studies, Bioinformatics, Engineering & its Technical Terminology, School of Computational & Integrative Sciences, Jawaharlal Nehru University, MHRD, Govt. of India, 12-14 March, 2018 (13th March 2018)
31. Invited Talk on "Basics of Performance Analysis & Modeling," Performance Analysis of Computing Systems Series, EDUSAT, CEC, UGC, New Delhi (11th January 2018)
32. Invited Talk on "Strategic Decision & Diffusion Modelling," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (25th January 2017)
33. Invited Talk on "Significance of Performance Analysis," Performance Analysis of Computing Systems Series, EDUSAT, CEC, UGC, New Delhi (28th December 2017)
34. Invited Talk on "Growing Networks," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (15th November 2016)
35. Invited Talk on "Random Graphs & Networks," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (7th October 2016)
36. Invited Talk on "Centrality & Complex Graphs," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (5th October 2016)
37. Invited Talk on "Fundamentals of Graphs," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (29th September 2016)
38. Invited Talk on "Applications & Significance of Graphs," Networks & Graphs Series, EDUSAT, CEC, UGC, New Delhi (16th September 2016)
39. Invited Talk on "Wireless Sensor Network - III : Routing, Sensing & Mobility Models," EDUSAT, CEC, UGC, New Delhi (9th September 2016)
40. Invited Talk on "Wireless Sensor Network - II," EDUSAT, CEC, UGC, New Delhi (17th August 2016)
41. Invited Talk on "Wireless Multimedia Network - III," EDUSAT, CEC, UGC, New Delhi (29th July 2016)
42. Invited Talk on "Wireless Multimedia Network - II," EDUSAT, CEC, UGC, New Delhi (21st July 2016)
43. Invited Talk on "Advance Computer Network and Security," ABES Engineering College, Ghaziabad, U.P. (15th July 2016)
44. Invited Talk on "Wireless Multimedia Network," EDUSAT, CEC, UGC, New Delhi (12th July 2016)
45. Invited Talk on "Radio Propagation for Wireless Communication," EDUSAT, CEC, UGC, New Delhi (4th July 2016)
46. Invited Talk on "Wireless Sensor Network," EDUSAT, CEC, UGC, New Delhi (29th June 2016)

**Conferences/
Seminars/
Workshops
Organized**

- :
1. Session Chair in IEEE-sponsored International Conference on Network and Cryptology, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi (30-May-2025)
 2. Session Chair in Springer 4th International Conference on Advanced Computing and Intelligent Technologies, organized by Università-degli Studi-di Siena, Italy, ADSRS Education & Research and Indira Gandhi National Tribal University on 13-December-2024
 3. Conducted a Career Counselling Session on Python Programming with Mock Interview Questions for MSc Geoinformatics students on 21-October-2024
 4. Organized Seminar & Training Programme with external speakers from Ministry of Petroleum and Natural Gas, JNU, and DU on "Global Convention Against Cybercrime: The Existing Best Practices in ICT Security," with Dr. Moumita Mandal as co-organizer. (27-September-2024)
 5. Special Lecture & Hands-on Session on Python Programming Essentials for Geoinformatics for Placement of MSc Geoinformatics (5th September, 2024)
 6. Webinar Organized on Data Science in Geospatial Technology, Speaker: Dr. Prabir Mukherjee, Tata Consultancy Services (TCS) (22nd August, 2024)
 7. Webinar Organized on Cybersecurity: Threats, Attacks & Countermeasures, Speaker: Dr. Ankit Chaudhary School of Engineering, Jawaharlal Nehru University, New Delhi (12th June, 2024)
 8. Webinar Organized on Fuzzy Modeling for Data Recommendation, Speaker: Dr. Vibhor Kant Department of Computer Science, BHU Varanasi (17th May, 2024)
 9. Session Chair in *IEEE International Conference on Informatics*, Organized by Department of Computer Science & Engineering, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh (April 14-16, 2022)
 10. Session Mentor in *ACM 13th International Conference on Contemporary*, Organized by Department of Computer Science & Engineering, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh (Aug 5-7, 2021)
 11. Invited Session Chair for *2nd International Conference on Networks and Cryptology*, Jawaharlal Nehru University, New Delhi (4-6 December, 2020)
 12. Organized & Conducted Special Session Chairperson for Invited Special Session on "Social Intelligence & Sustainability," *Springer International Conference on Artificial Intelligence & Applications*, Maharaja Surajmal Institute of Technology, New Delhi, 2020 (7th, 8th February 2020)
 13. Guest Editors for Scopus-Indexed Journal Special Issue on "Recommender Systems: Latest Technologies and Research Challenges," as Guest Editor in *International Journal of Knowledge and Systems Science*, 2019 (Other Guest Editors: Dr. Ankita Verma, Ms. Deepti Singh)
 14. Convened Three Days Workshop on "Big Data Systems, Tools, and Applications," Jaypee Institute Information Technology, Noida, 2018 (17th - 19th December 2018)
 15. Organized & Conducted Special Session Chair for Invited Special Session on "Advances in Social Media & Networking," *IEEE 8th International Advance Computing Conference (IACC 2018)*, Bennett University, Greater Noida, U.P., December 14-15, 2018 (14th, 15th December 2018)

	<ol style="list-style-type: none"> 16. Organized & Conducted as Special Session Chair for Invited Special Session on “Internet of Things: Advances & Applications,” in 3rd International <i>Elsevier Conference on Internet of Things and Connected Technologies</i>, MNIT, Jaipur, March 26-27, 2018 (26th, 27th March 2018) 17. Organized & Conducted as Special Session Chairperson for Invited Special Session on “Performance Analytics for Next-Generation Computing,” in <i>12th IEEE INDIACom 2018</i>, Bharati Vidyapeeth, New Delhi, March 14-16, 2018 (15th March 2018) 18. Member of Publication Team in <i>IEEE International Conference on Contemporary</i>, 2013-2018 19. Member of Technical Programming Committee in <i>IEEE/ACM International Conference on Contemporary</i>, 2013-2021
FDP / STC / Workshop Conference Attended	<p>:</p> <ol style="list-style-type: none"> 1. Attended 1-Week Faculty Development Programme on <i>Advancements in AI</i>, 15-19 June, 2026 at School of Computer Science and Engineering, RV University, Bengaluru, Karnataka. Participated Online. 2. Attended 2-Weeks Faculty Development Programme (Summer School) on <i>Emerging Trends in Software Development: Tools and Technique</i>, 1st July - 13th July, 2024 at Department of CSE & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. 3. Attended 1-Week Faculty Development Programme on <i>Autonomous AI for Sustainable Development (AAISD - 2024)</i>, 3rd Jun - 08th June 2024 at Department of CSE & IT, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh. 4. Attended 2-Weeks Teacher’s Enrichment Workshop (TEW) on <i>Mathematical Foundation of Data Science</i>, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, 20th March - 1st April, 2023 5. Attended 2-Weeks <i>Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching Faculty Development Program on Quantum Computing and Applications</i>, Ramanujan College, University of Delhi, and Jaypee Institute of Information Technology, Noida-128, Uttar Pradesh, 25th July - 5th August, 2022 6. Attended 1-Week <i>Faculty Development Program on Graph Analytics Applications</i>, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, 25th - 31st July, 2022 7. Attended 1-Week <i>AICTE Training And Learning (ATAL) Academy Online Advanced Faculty Development Program on Quantum Computing-Building Concepts</i>, Amity Institute of Information Technology, Amity University, Lucknow, Uttar Pradesh, 7th February - 11th February, 2022 8. Attended 1-Week <i>AICTE Training And Learning (ATAL) Academy Online Elementary Faculty Development Program on Quantum Computing-Building Concepts</i>, Amity Institute of Information Technology, Amity University, Lucknow, Uttar Pradesh, 13th December - 17th December, 2021 9. Attended 1-Week <i>AICTE Training And Learning (ATAL) Academy Online Elementary Faculty Development Program on Data Science & Its Applications</i>, Lakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh, 6th December - 10th December, 2021

10. Attended 1-Week Online Faculty Development Program on Deep Learning for Natural Language Processing, Department of Computer Science & Engineering, Jaypee Institute of Information Technology, Noida-128, Uttar Pradesh, 28th June – 3rd July, 2021
11. Attended 1-Week Short Term Course (STC) on Research Trends in Machine Learning and IoT (RTMI-2021), Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, Uttar Pradesh, March 15-19, 2021
12. Attended Online Course on Python for Data Science and Machine Learning Bootcamp, Udemy, 13-22 June, 2020
13. Attended 1-Week Online Faculty Development Program on Cyber Security, AICTE Training and Learning (ATAL) Academy, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, 25-30 May, 2020
14. Attended 1-Week Online Faculty Development Program on Machine Learning & Artificial Intelligence in Data Science, Department of Computer Science & Engineering, Jaypee Institute of Information Technology, Noida, Uttar Pradesh, 8-12 June, 2020
15. Attended Leadership Talk Series Session with Prof D. P. Singh, Chairman UGC, and Dr. Abhay Jere, Chief Innovation Officer MHRD Innovation Cell, 11-12 PM, 9th May, 2020
16. Attended Leadership Talk Series Session with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited, and Dr. Abhay Jere, Chief Innovation Officer MHRD Innovation Cell, 1-2 PM, 16th May, 2020
17. Attended Leadership Talk Series Session with Mahesh Babu CEO Mahindra Electric Mobility Ltd., and Dr. Abhay Jere, Chief Innovation Officer MHRD Innovation Cell, 1-2 PM, 23rd May, 2020
18. Attended National Webinar on Socio-Economic-Legal Impact of Corona Pandemic on Women, Aryabhatta College, University of Delhi, 3-5 PM, 27th June, 2020
19. Attended Webinar on Industry 4.0: Convergence of Technology, IoT Academy in association with E&ICT Academy IIT Guwahati, 3-5 PM, 16th May, 2020
20. Attended Webinar on LPWAN Designs & Applications, IoT Academy in association with E&ICT Academy IIT Guwahati, 3-5 PM, 17th May, 2020
21. Attended Webinar on Deployment Challenges of IOT, IoT Academy in association with E&ICT Academy IIT Guwahati, 3-5 PM, 19th May, 2020
22. Attended Webinar on Implementation of Machine Learning with E-Commerce, IoT Academy in association with E&ICT Academy IIT Guwahati, 3-5 PM, 23rd May, 2020
23. Attended Webinar on Electrical Vehicle Infrastructure, IoT Academy in association with E&ICT Academy IIT Guwahati, 3-5 PM, 24th May, 2020
24. Attended 2-days Workshop on Computational Methods for Medical Image Analysis, Department of Computer Science & Engineering and Information Technology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, 18-20 April 2019
25. Attended 2-days Workshop on IoT Systems, Tools and Applications, Department of Computer Science & Engineering and Information Technology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, 15-16 March 2019

	<ol style="list-style-type: none"> 26. Attended 3-days Workshop on <i>Intelligent Systems – Techniques and Research Applications</i>, Department of Computer Science & Engineering and Information Technology, Jaypee Institute of Information Technology, Noida-62, Uttar Pradesh, 20-22 December 2018 27. Attended 3-days Workshop on <i>Data Science and Visualization Tools</i>, Department of Computer Science & Engineering and Information Technology, Jaypee Institute of Information Technology, Noida-128, Uttar Pradesh, 15-17 November 2018 28. Attended <i>IEEE International Conference on Contemporary Computing (IC3)</i>, Jaypee Institute of Information Technology, Noida, Sector-62, Uttar Pradesh, 2013-2022 29. Attended 3-days <i>International Conference on 25th Convergence India International ICT Exhibition</i>, Exhibition India Group 217-B, Okhla Industrial Estate Phase III, New Delhi, 8-10 Feb, 2017 30. Attended 7-days <i>Short Term Course on Network & Cyber Security, Computer Science & Engineering</i>, SC&SS, Jawaharlal Nehru University, New Delhi, 27th June - 1st July 2016 31. Attended 8-days <i>Faculty Development Program on Advanced Statistical Methods</i>, Department of Mathematics, Jaypee Institute of Information Technology, Noida, UP, 2014
Awards & Professional Achievements	<p>:</p> <ol style="list-style-type: none"> 1. Received Best Paper Award for: “A Machine Learning-Based Framework for Uranium Risk Assessment, Population Exposure and Groundwater Governance in Urban India,” in <i>National Conference on The Nexus Imperative: Environment, Public-Health and Policy for a Sustainable Future (EHP NEXUS 2026)</i>, sponsored by Indian Council of Social Science Research (ICSSR, India), Gautam Buddha University, Greater Noida, 27-28 April 2026, authored by: Kavya Agrawal, Adwitiya Sinha, Chander Kumar Singh (First Position for the Oral Presentation). 2. Elevated as <i>ACM Senior Member</i> (ID: 9084082) by Association for Computing Machinery (ACM), New York, USA (9th April 2025), Active ACM Member since 2020 3. Received Global Research Excellence Award in 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS-2024), May 16-17, 2024, Sponsored by Springer and ADRS Education and Research Society. 4. Student Learning Assessment (Parakh) Certificate, Overall Rating: 5-Star, Computer Science & Engineering, Self-Assesment ID: 1-3768378637, 31-July-2022 5. Received Innovation Ambassador (IA) Certificate on completion of IA Training Foundation Level, conducted by: MoE’s Innovation Cell & AICTE, IIC Calender year 2021-22 (11-October-2022) 6. Received Best Paper Award for: “Suspicious Activity Detection in Surveillance Applications using Slow-Fast Convolutional Neural Network,” in <i>International Conference on Advances in Data Computing, Communication and Security, Lecture Notes on Data Engineering and Communication Technologies</i>, Springer, 8-10 September 2021, authored by: Mitushi Agarwal, Priyanka Parashar, Aradhya Mathur, Khushi Utkarsh, Adwitiya Sinha. 7. Received Young Scientist Award in <i>2nd International Conference on Networks and Cryptology (NetCrypt)</i>, for “A Machine Learning-based Malicious Bot Detection Framework for Trend-centric Twitter Stream,” 4-6 December, 2020.

	<ol style="list-style-type: none"> 8. Received Best Paper Award for: "A Machine Learning-based Malicious Bot Detection Framework for Trend-centric Twitter Stream" in <i>2nd International Conference on Networks and Cryptology (NetCrypt)</i>, 4-6 December, authored by: Suruchi Gera, Adwitiya Sinha (2020) 9. Received Best Paper Award for: "TODD: Time-aware Opinion Dynamics Diffusion Model for Online Social Networks," in <i>Springer International Conference on Artificial Intelligence and Applications (ICAIA)</i>, authored by: Aditya Lahiri, Yash Singhal, Adwitiya Sinha (6-7 February, 2020) 10. Elevated as <i>IEEE Senior Member</i> (ID: 93529195) by Institute of Electrical & Electronics Engineers (IEEE), New York, USA (22nd April 2019), Active IEEE Member since 2017 11. ACM Professional Membership (ID: 9084082): by Association of Computing Machinery, New York, USA (Active ACM Member since 2020) 12. Delivered Lecture Series on <i>Networks & Graphs</i>, CEC, UGC, New Delhi (2016-17) 13. Ongoing Lecture Series on <i>Performance Analysis of Computing Systems</i>, CEC, UGC, New Delhi (2017- continuing) 14. Visiting CEC, UGC, New Delhi for Invited Lectures under EDUSAT Live Telecasts (2016-continuing) 15. Awarded with Senior Research Fellowship (SRF) for Ph.D. Research by CSIR-UGC, New Delhi (29th March, 2012) 16. First Rank Holder (Gold Medallist) in M.Tech. (Computer Science & Technology) from School of Computer & Systems Sciences, Jawaharlal Nehru University (2008-2010) 17. Qualified GATE with Computer Science and Engineering (2008) 18. Awarded by UGC Research Fellowship for M.Tech. (Academic Session 2008-12) 19. Got 4th rank in JNU entrance exam conducted all over the world (2008) 20. Senior Diploma (<i>Aankan Vibhakar</i>) & Junior Diploma in Fine Arts
Member of Professional Bodies/Societies	<ol style="list-style-type: none"> 1. Institute of Electrical & Electronics Engineers (IEEE) Senior Member, Membership ID: 93529195, 2019-till date 2. Association for Computing Machinery (ACM) Senior Member, Membership ID: 9084082, 2020-till date 3. IEEE Young Professionals Membership, 2022-till date
Ph.D. Students Supervised	<p>:</p> <ol style="list-style-type: none"> 1. Supervisor, Somya Jain (Title: <i>Influential Nodes Identification for Online Social Networks</i>), Enrolment No.: 16403007, Domain: Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (Assigned: 2016) (<i>Ph.D. Thesis Submitted on 15th July 2021</i>) (<i>Defended & Awarded 12th April 2021</i>) 2. Supervisor, Meeta Gupta (Title: <i>Data Oriented Techniques in Wireless Sensor Networks</i>), Enrolment No.: 12403317, Domain: Wireless Sensor Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (Assigned: 2015) (<i>PhD. Thesis Submitted on 16th November 2021</i>) (<i>Defended & Awarded 15th November 2021</i>) 3. Co-Supervisor, Preeti Saini (Title: <i>Radio Propagation Models for Underwater Wireless Sensor Networks</i>), Registration No.: 17019001, Domain: Wireless Sensor Network,

	<p>Guru Jambheshwar University of Sc. & Tech., Hisar, Haryana (Assigned: 2017) (<i>Ph.D. Thesis Submitted on 19th March 2021</i>) (<i>Defended & Awarded 31st January 2022</i>)</p> <ol style="list-style-type: none"> 4. Supervisor, Suruchi Gera (Title: <i>Detection & Analysis of Online Social Media Crimes</i>), Enrolment No.: 17403002, Domain: Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (Assigned: 2017) (<i>Submitted: 24th February, 2023</i>) (<i>Defended & Awarded 17st October 2023</i>) 5. Co-Supervisor, Sarishty Gupta (Tentative Title: <i>Network Science & Modeling using Big Social Data</i>), Enrolment No.: 21403018, Domain: Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (Assigned: 2022) (<i>Ongoing</i>)
<p>M.Tech. Thesis Supervised</p>	<p>:</p> <ol style="list-style-type: none"> 1. Priyanka, Enrolment No.: 12303022, Dissertation Title: An Efficient Geographic Forwarding with Link Lifetime Analysis in MANET, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2014) 2. Kanishak Kumar, Enrolment No.: 12303014, Dissertation Title: An Efficient Sleep Scheduling Strategy for Wireless Sensor Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2014) 3. Pawan Kumar, Enrolment No.: 13303007, Dissertation Title: Diffusion model in Social Network Analysis, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2015) 4. Arpan Dubey, Enrolment No.: 13303014, Dissertation Title: Congestion Control of Self Similar Traffic in Wireless Sensor Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2015) 5. Kirti Verma, Enrolment No.: 11503861, Industrial Thesis: Implementing Analytics and Purchase API to Fusion & Chat Blog Author, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2016) 6. Ayush Kumar, Enrolment No.: 11503879, Industrial Thesis: Odoo Open ERP (2016) 7. Tanya Varshney, Enrolment No.: 14303014, Dissertation Title: Community Detection in Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2016) 8. Kapil Rajput, Enrolment No.: 15318008, Industrial Thesis: Exploring User Behaviour for Integrated Recommendation with Click-Stream Analysis, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2017) 9. Shubham Kalra, Enrolment No.: 15318006, Industrial Thesis: Analytical Mining of Telecom Churn with Prediction Computation, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2017) 10. Shalini Yadav, Enrolment No.: 15318009, Dissertation Title: Multi-Attribute Identity Resolution for Online Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2017) 11. Amrit Kaur Saggu, Enrolment No.: 16303010, Dissertation Title: Discovering Social Influence for Diffusion Analysis in E-commerce, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2018) 12. Shashank Gupta, Enrolment No.: 13503888, Dissertation Title: Modelling Behavioral Biometry with Sensor-Enhanced Keystroke Dynamics for Real Time Identity Verification, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2018)

	<ol style="list-style-type: none"> 13. Kanika Singh, Enrolment No.: 17318001, Industrial Thesis: Predicting Price of Used Cars with Machine Learning & LiquorBerg, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2019) 14. Deepanshi Choudhary, Enrolment No.: 17303013, Dissertation Title: Context-based Multi-Aspect Behavioural analysis for Signed Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2019) 15. Sejal Chandra, Enrolment No.: 18318005, Dissertation Title: Influence Maximization in Online Social Network, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2020) 16. Mansi Gupta, Enrolment No.: 15803008, Dissertation Title: ACO-based Recommender System with Path Cost Optimization, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2020) 17. Mayuri Gupta, Enrolment No.: 19303005, Dissertation Title: Assessing Spatiotemporal Transmission Dynamics of COVID-19 Outbreak using AI Analytics, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2021) 18. Rachit Shukla, Enrolment No.: 16803024, Dissertation Title: Online Bot Detection Framework for Twitter Social Media Using Artificial Intelligence Techniques, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2021) 19. Aradhya Mathur, Enrolment No.: 17803011, Industrial Thesis: Application Development to Automate Hiring System for Customer Relationship Management using Apex Salesforce, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2022) 20. Nainy Jain, Enrolment No.: 21303001, Industrial Thesis: Online Social Media Application Development, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2023). 21. Jaya Garg, Enrolment No.: MTEG220033, Industrial Thesis (Tentative Title): ERP Analytics for Organization Sales Performance, Jaypee Institute Information Technology, Noida-62, Uttar Pradesh (2023)
<p>M.Sc. Projects Supervised</p>	<ol style="list-style-type: none"> 1. Oli Mitra, MSc (Climate Science and Policy), Rooftop Solar, Power Foundation of India, 2024 2. Meghna Vinodan, MSc (Environmental Studies and Resource Management), The role of metrics in achieving conservation goals, Nature Conservancy India Solutions Private Limited, 2024 3. Muskan Agarwal, MSc (Climate Science and Policy), Exploring the Socio-Economic Landscape Post Just Transition in Jharkhand, ThinkThrough Consultancy, 2024 4. Kripa Bhardwaj, MSc (Geoinformatics), Building QGIS Plugin to access baselayers, Suhora Space Analytics, 2024 5. Laveena Ghanshyamdas Shyamnani, MSc (Climate Science and Policy), ESG Analytics - Data driven assessment for Companies' ESG Practices, ESG Book, 2024 6. Koyena Das, MSc (Geoinformatics), Drought condition detection in entire India, Combining Multispectral and Optical Data with ML to generate Synthetic NDVI

for crop detection, Regional Remote Sensing Center- East (Kolkata), NRSC/ISRO, 2024

7. Shreya Madhup, MSc (Environmental Studies and Resource Management), Comprehensive Analysis of Environment Management System including Sustainable Reporting at Iron Ore Mines of SAIL, Rourkela Steel Plant (RSP), Steel Authority of India Ltd (SAIL), 2024
8. Dishti Handa, MSc (Environmental Studies and Resource Management), Disclosure for projects in Southeast Asia , South Asia and Oceania, CDP(Carbon Disclosure Project) Operation Pvt. Ltd, 2024
9. Tripti Vidya Toppo, MSc (Geoinformatics), Crop Acreage Mapping in Bhandra Block, Lohardaga District, Jharkhand using Satellite Remote Sensing, Jharkhand Space Application centre, 2025
10. Srijani, MSc (Geoinformatics), Long-Term Trend of Absorbing Aerosols using Multi Sensor UV AAI Observations, TERI, 2025
11. Prasiddhi Kumari, MSc (Geoinformatics), Deforestation Dynamics and Biodiversity Risk - A GIS Based Study on Palm Oil and Clouded Leopard Habitats in Mizoram, WWF India, 2025
12. E. Sarla Sruti, MSc (Geoinformatics), Site-Suitability analysis of millets as climate resilience crop in Chirang District, Assam using Remote Sensing and Machine Learning, Assam State Space Application Center (ASSAC), 2025
13. Avni, MSc (Geoinformatics), Velocity and mass balance of siachen glacier using cross correlation algorithm, Space Application Centre, ISRO, 2025
14. Kanchan Karua, MSc (Geoinformatics), Assessment and Prediction of Carbon Sequestration using InVEST - A Case Study of Gujarat, Varaha Climate Ag Private Limited, 2025
15. Archita Mazumdar, MSc (Geoinformatics), GIS and Machine Learning-Driven Site Selection & Solar Energy Planning for Optimizing Renewable Energy Potential, National Solar Energy Federation of India (NSEFI), 2025
16. Sampath Gudapati, MSc (Climate Science and Policy), Green-house Gases Monitoring, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), 2025
17. Shreya Das, MSc (Environmental Studies and Resource Management), Impact of Thermal power plants on aquatic biodiversity and associated mitigation measures, TERI, 2025
18. Adarsh Srivastava, MSc (Environmental Studies and Resource Management), Autoregressive Deep Learning for Real-Time Urban Flood Emulation: A HEC-RAS-Based Neural Hydraulic Surrogate Model for Gurugram, India, TERI SAS, 2026
19. Surabhi Shukla, MSc (Climate Science and Policy), BRSR Core Assurance Readiness Assessment of Large-Cap Indian Companies: A Sectoral Comparative Analysis, TERI SAS, 2026
20. Pragya Moudgil, MSc (Environmental Studies and Resource Management), Insilico Analysis of Abiotic Stress-Responsive Transcription Factors in Arabidopsis Thaliana, Gargi college, University of Delhi, 2026

21. Aashna Malhotra, MSc (Climate Science and Policy), Dry Cell Waste Management in India, KPMG, 2026
22. Abhimanyu Kaul, MSc (Climate Science and Policy), Assessment of National Mitigation Policies in the Power and Transport Sectors and their Contribution to India's Net Zero Targets, Vasudha Foundation, 2026
23. Aditi Jain, MSc (Climate Science and Policy), Estimation of Greenhouse Gas Emissions from Amended Wheat Soils and their Relationship with Soil Parameters, ICAR – IARI, 2026
24. Maitrayee Barman, MSc (Climate Science and Policy), Role of Livelihood Capitals in Adoption of Multiple Farm Management Practices: Evidence from Smallholder Farmers in Uttarakhand, Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee, 2026
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