



Dr. Rahul Katarya, Senior Member IEEE

Associate Professor

Department of Computer Science & Engineering

Officer In-Charge, *International Partnership & Visitation*

Office of International Affairs

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📖 Education

Ph.D. (I.T.), M.Tech. (ISY), B. Tech. (CSE).

📖 Research Interests:

Big Data Analytics, Artificial Intelligence, Machine Learning, Blockchain, IoT, Deep Learning, Social Networks, Recommender Systems, Knowledge Discovery, Computational Intelligence, Multimedia, Human Analytics, Software Engineering, Software Quality & Testing, Web Engineering, Internet Technologies, Healthcare, Climate Change, Disaster Management, Business Intelligence

📖 Honours/Research Awards

- On March 13, 2020, Delhi Technological University (DTU) awarded for commendable research award for **excellence in research** in the year 2019.
- On March 19, 2019, Delhi Technological University (DTU) awarded for commendable research award for **excellence in research** in the year 2018.
- On March 21, 2018, Delhi Technological University (DTU) awarded for commendable research award for **excellence in research** in the year 2017.
- IEEE awarded a certificate of appreciation as a “proctor” for guiding and oversee competing teams for the IEEE Xtreme 13.0 programming competition that hosted 9,400 participants on October 19, 2019.
- Elsevier: Applied Soft Computing, Computer Standards & Interfaces and Swarm & Evolutionary Computation International Journals **awarded the** certificate of reviewing.
- Elsevier: Computer in Human Behaviour Journal **awarded** outstanding contribution in reviewing in the year 2016.

☞ International participation achievement

- **Dr. Rahul Katarya** has been selected in **International Cooperation Division, Department of Science & Technology (DST), Govt. of India, 5th BRICS Young Scientists Conclave-2020 Chelyabinsk, Russia** of theme *“BRICS Partnership of Young Scientists and Innovators for Science Progress and Innovative growth”* (online) through Video Conferencing during September 21-25, 2020 due to COVID-19 related situation globally (It was earlier scheduled to take place in Chelyabinsk, Russia during September 7-11, 2020).
- **Dr. Rahul Katarya** was selected & invited by Japan Science & Technology (JST) for the special invitation program designed for **young Indian officers and researchers** under the framework of Japan-Asia Youth Exchange program in **SAKURA SCIENCE Exchange Program, Japan** from **26 to February 1, 2020**, administered by Japan Science & Technology Agency, **Japan, Tokyo**. He visited Artificial Intelligence Research Center (AIRC) in National Institute of Advanced Industrial Science & Technology (AIST) Tokyo, University of Tokyo, Azabu University Japan, National Institute of Information and Communication Technology (NICT) Tokyo, Chofu Aerospace Center Tokyo, Japan Aerospace Exploration Agency and Fujitsu Limited, Tokyo.
- **Dr. Rahul Katarya** (Only team from India, with two DTU undergraduate students) was selected, participated and contributed in **Otago Polytechnic, New Zealand** and Untouched World Foundation Engineering Waterwise Programme along with two third-year Engineering students in Central Otago, **New Zealand** from **17 March to 6 April 2019**. This Programme is a part of the **UNESCO Global Action Programme** based on youth leadership, international citizenship, sustainable development, and quality education, and is a partnership between Otago Polytechnic and the Untouched World Foundation, with support from Education New Zealand.

☞ Expert Talks (International):

- Delivered an expert talk in BRICS-YSF Conclave 2020, Scientific session of Artificial Intelligence on *“Opportunities and Challenges in Healthcare Analytics Using Artificial Intelligence (AI) in BRICS Countries” in virtual mode* at SUSU (South Ural State University) 76, Lenin prospekt, Chelyabinsk, Russia, 454080 on 22 September 2020. (<https://brics-ysf2020.ru/programme/>)
- Delivered an expert talk on *“Opportunities and Future Research Collaborations: Indo-Japan Perspective”* and represented **India** and **Delhi Technological University (DTU)** in the 2nd Exchange Meeting of Japan-India Universities at JST Tokyo Headquarters, 7 Gonbancho, Chiyoda, **Tokyo, Japan** on Thursday, **January 30, 2020**.
- Delivered an expert talk on *“Tackling Natural Disasters in India and New Zealand using Big Data & Machine Learning: The Future.”* The talk was delivered at Level 6, WZ Building, 6 St. Paul Street, **Auckland University of Technology (AUT), Auckland, New Zealand** on **April 1, 2019**. Dr. Rahul Katarya discussed several projects around the Big Data that present excellent opportunities for collaboration between researchers in both countries and Universities.
- Delivered an expert talk on *“Opportunities, Issues, and Challenges in Big Data Analytics: India-New Zealand Perspective”* on **April 1, 2019**, in Room 201, 70 Symonds Street at the **University of Auckland, New Zealand**. Dr. Rahul Katarya shared his valuable perspective on the potential area of collaboration between India and New Zealand, which includes Computer Engineering, Climate change, Water, Health, Agriculture, Social Networks, Tourism, Big Data Analytics, Machine Learning, and Artificial Intelligence.
- Delivered a talk on *“Role of Big Data in Climate Change: India-New Zealand Connection”* on April 4, 2019, at the Department of Information Technology, **Otago Polytechnic, New Zealand**. He

provided valuable inputs to the various concerns (Computer Engineering, Climate Change & Water issue) of India-New Zealand.

- Presented a talk on “*Privacy-preserving and secure recommender system enhance with K-NN and social tagging*” in the 4th International Conference on Cyber Security and Cloud Computing (IEEE CSCloud 2017) on June 26, 2017, at **Columbia University, New York, USA**.

☞ Publication in SCI Indexed International Journals:

1. Aakansha Gupta, **Rahul Katarya**, “*Social Media based Surveillance Systems for Healthcare using Machine Learning: A Systematic Review*” Journal of Biomedical Informatics, Volume 108, August 2020, 103500 (**Impact Factor: 3.526, Publisher: Elsevier**) <https://doi.org/10.1016/j.jbi.2020.103500>
2. Lokesh Jain, **Rahul Katarya**, Shelly Sachdeva “*Recognition of opinion leaders coalitions in online social network using game theory*” Knowledge-Based Systems, Volume 203, 5 September 2020, 106158 (**Impact Factor: 5.921, Publisher: Elsevier**) <https://doi.org/10.1016/j.knosys.2020.106158>
3. **Rahul Katarya**, Yamini Arora “*CapsMF: A novel Product Recommender System using Deep Learning Based Text Analysis model*” Multimedia Tools and Applications (**Impact Factor: 2.313, Publisher: Springer**) <https://doi.org/10.1007/s11042-020-09199-5>
4. Lokesh Jain, **Rahul Katarya**, Shelly Sachdeva, “*Opinion Leader detection using Whale Optimization Algorithm in Online Social Network*” Expert Systems with Applications, (**Impact Factor: 5.452, Publisher: Elsevier**), Volume 142, 15 March 2020, 113016, <https://doi.org/10.1016/j.eswa.2019.113016>
5. Lokesh Jain, **Rahul Katarya** “*Discover opinion leader in social network using firefly algorithm*”, Expert Systems with Applications, Volume 122, Page 1-15, May 2019, (**Impact Factor: 5.452, Publisher: Elsevier**). <https://doi.org/10.1016/j.eswa.2018.12.043>
6. **Rahul Katarya** “*Movie recommender system with metaheuristic artificial bee*” Neural Computing and Applications, September 2018, Volume 30, Issue 6, pp 1983–1990, <https://doi.org/10.1007/s00521-017-3338-4> (**Impact Factor: 4.774, Publisher: Springer**).
7. **Rahul Katarya**, Om Prakash Verma “*Effectual recommendations using artificial algae algorithm and fuzzy c-mean*” in *Swarm and Evolutionary Computation, October 2017* (**Impact Factor: 6.912, Publisher: Elsevier**). <https://doi.org/10.1016/j.swevo.2017.04.004>
8. **Rahul Katarya**, Om Prakash Verma “*An effective web page recommender system with fuzzy c-mean clustering*” Multimedia Tools and Applications, October 2017, doi: 10.1007/s11042-016-4078-7 (**Impact Factor: 2.313, Publisher: Springer**).
9. **Rahul Katarya**, Om Prakash Verma “*An effective collaborative movie recommender system with cuckoo search*” Egyptian Informatics Journal, October 2017, [doi: 10.1016/j.eij.2016.10.002](https://doi.org/10.1016/j.eij.2016.10.002) (**Impact Factor: 3.119, Publisher: Elsevier**).
10. **Rahul Katarya**, Om Prakash Verma “*Efficient music recommender system using context graph and particle swarm*” Multimedia Tools and Applications, Volume 77, Issue 2, pp 2673–2687, January 2018, DOI: <https://doi.org/10.1007/s11042-017-4447-x> (**Impact Factor: 2.313, Publisher: Springer**).
11. **Rahul Katarya**, Om Prakash Verma “*Recent developments in affective recommender systems.*” Physica A: Statistical Mechanics its Applications, May 2016, 461:182–90. [doi:10.1016/j.physa.2016.05.046](https://doi.org/10.1016/j.physa.2016.05.046) (**Impact Factor: 2.924, Publisher: Elsevier**).
12. **Rahul Katarya**, Om Prakash Verma “*A collaborative recommender system enhanced with particle swarm optimization technique*” Multimedia Tools and Applications 1–15, March 2016, doi: 10.1007/s11042-016-3481-4 (**Impact Factor: 2.313, Publisher: Springer**).
13. **Rahul Katarya**, Om Prakash Verma, “*Recommender system with grey wolf optimizer and FCM*” Neural Computing and Applications, September 2018, Volume 30, Issue 5, pp 1679–1687, doi:10.1007/s00521-016-2817-3 (**Impact Factor: 4.774, Publisher: Springer**).

☞ MOOC course completed:

- On 1/8/2020 with Grade 99.17% “*Cybersecurity and the Internet of Things*” Coursera, taught by Dr. Traci Carte, Dr. Humayun Zafar, Herbert J. Mattord, Ph.D., CISM, CISSP, CDP, Mr. Andy Green, Department of Information Systems, University System of Georgia, USA.

- On 31/07/2020 with Grade 96% **“Blockchain Basics”** Coursera, taught by Professor, Bina Ramamurthy, Department of Computer Science & Engineering, authorized by University of Buffalo and The State University of New York, USA.
- On 30/6/2020 with Grade 94.1% **“The Science of Well-Being”**, Coursera, taught by Professor, Laurie Santos, Computer Science Department, Psychology, Yale University, USA.
- On 21/6/2020 with Grade 98% **“AI for Everyone”**, Coursera, taught by Adjunct Professor Andrew Ng, Computer Science Department, Stanford University, USA.
- On 19/6/2020 with Grade 88% **“Business Writing”** Coursera, taught by Dr. Quentin McAndrew, Department of English, University of Colorado Boulder, USA.

☞ **Expert Talks (India):**

- Keynote Speaker for *“Impact of Social Networks in Human Behavioral Analytics”* in 4th IEEE International Conference on Information Systems and Computer Networks (ISCON)” organized by Department of Computer Engineering & Applications, GLA University, Mathura (UP), India held on November 21-22, 2019.
- Delivered a talk on *“Role of Artificial Intelligence to Detoxify Social Media Contents”* as an invited speaker at the 66th IETE Foundation Day on the theme *“Role of Artificial Intelligence and Machine Learning in the Development of Society”* on November 2, 2019, at IETE 2, Institutional Area, Lodhi Road, New Delhi-110003.
- Delivered a Guest Lecture on *“AI in Healthcare Analytics”* on August 27, 2019, in Department of Computer Engineering & Applications, GLA University, Mathura, India
- Delivered a lecture titled on *“Importance of Big Data analytics & intellectual property rights in E-learning & E-Governance”* on August 26, 2019, in the 2nd Refresher Course in E-Learning & E-Governance at the UGC-Human Resource Development Centre, Jawaharlal Nehru University(JNU), India.
- Delivered an expert talk on *“Artificial Intelligence in Healthcare”* June 27, 2019, in Faculty Development Programme (FDP) themed on *“Artificial Intelligence using Machine Learning”* organized by Department of Computer Science and Engineering, SRM Institute of Management & Technology, Delhi-NCR Campus, Ghaziabad, India.
- Delivered an expert talk on 6th June 2019, in one-week Faculty Development Programme (FDP) on *“Advances in Network Modeling & Optimization Techniques”* organized by Department of Computer Science and Engineering, Jaypee Institute of Information Technology (JIIT) Noida, India.
- Delivered an expert talk on *“Recent trends in intelligent Multimedia Applications”* on 28th July 2018, in one-day national seminar on recent advances in computer vision & Image Processing in Computer Science and Engineering Department, IMS Engineering College, Ghaziabad.
- Delivered an expert lecture on *“Security and Privacy Issues in Big Data”* on 11th July 2018 in Faculty Development Program (FDP) (9-14 July 2018) at Jaypee Institute of Information Technology (JIIT) Noida, India.
- Delivered an expert lecture on *“Recent trends in Machine Learning and Big Data Analytics”* in Faculty Development Program, organized at Meerut Institute of Engineering & Technology U.P. Sponsored by TEQIP-III, Dr. A.P.J. Abdul Kalam Technical University, Lucknow on January 18, 2018.

☞ **Session Chair/Panellist/Visitor in International Conferences/Conclave/Industry/Advisor**

- **Board of Advisory**, Indian Road Safety Campaign (IRSC) is the road safety initiative of Solve. Started as a project at IIT Delhi due to death of students in a road-accident, IRSC has gradually grown to be the largest youth-led organization in India. <https://irsc.road-safety.co.in/team/BoardOfAdvisory/>

- Chaired a session in 4th IEEE International Conference on Information Systems and Computer Networks (ISCON) organized by Department of Computer Engineering & Applications, GLA University, Mathura (UP), India held on November 21-22, 2019.
 - Indian Panellist in a workshop themed on “How Engineers are making the most of data and simulation” in the New Zealand-India Academic Conclave on Monday, 20 August 2018 at Hyatt Regency Hotel, New Delhi.
 - Visited ORBOSYS Cooperation Pvt. Ltd. company on June 16, 2018, with DTU students and faculty and met with Directors of Sales and Marketing & Technology.
 - Chaired a session in the 4th International Conference on Computer Management (ICCM-2018) held on 22-23 December 2018, organized by G.B. Pant Govt. Engineering College Delhi.
 - Chaired a session in the India International Conference on Information Processing (IICIP 2016) organized by Department of Computer Science & Engineering at Delhi Technological University during 12-14 August 2016.
- ☞ Currently supervising **7 Ph.D.** students in the field of Big Data analytics, Human healthcare, Climate Change, Web Mining, Social Networks, Artificial Intelligence, Online human behaviour, Deep learning, and Machine learning.
- ☞ Guided **17 M.Tech.** Thesis and 8 M.Tech. Thesis is in Progress

☞ **Courses taught (Ph.D./M.Tech./B.Tech.):**

Internet & Web Technologies, Software Engineering, Software Testing, DBMS, Software Quality Metrics, Object-Oriented Software Engineering, Multimedia & Applications, Data Warehousing and Mining, HTML Lab, Internet & WEB Engineering Lab, Software Engineering Lab.

☞ **Reviewer:** IEEE Transaction Intelligent Systems, IEEE Transaction Neural Networks and Learning Systems, Computer in Human Behavior (Elsevier), Applied Soft Computing (Elsevier).

☞ **Article/Chapter in Book/Magazine**

- Reliable recommender system using improved typicality based collaborative filtering technique, 2018
<https://www.taylorfrancis.com/books/e/9781351117661/chapters/10.1201/9781351117661-8>
 Book Name: System Reliability Management: Solutions and Technologies
 CRC Press: Taylor & Francis Group
- Web Search with Mobile Incorporation Geographic Information System in CSI Communication Magazine, CSI, ISBN: 0970-647X

☞ **Laboratory Supervisor /Lab-in-charge/Faculty Advisor**

- i. Faculty Advisor: Founder of Society named as “**D_CODER**”. The purpose of D_Coder society is to bridging the gap between industry and academics in multidisciplinary domain at national and International level.
- ii. Lab Incharge of “Big Data Analytics & Web Intelligence Research Lab”, Department of Computer Science & Engineering, DTU (July 2018-till now).
- iii. Lab Incharge of “Data Base Management Systems Lab” Department of Computer Science & Engineering, DTU (July 2018-September 2019).
- iv. Lab Incharge of “Web Engineering Laboratory”, Department of Information Technology, Delhi Technological University (2010-2018).

☞ Memberships

- Professional **Senior Member** of **Institute of Electrical and Electronics Engineers (IEEE) Society**.
- Professional Individual **Life Member** of **Computer Society of India (CSI)**
- Professional Member of the **International Association of Computer Science and Information Technology (IACSIT)**.
- Member of **IEEE Journal Intelligent Systems** Reviewer
<http://www.computer.org/portal/web/csdl/abs/html/mags/ex/2010/01/mex2010010004.htm>

☞ Committee member

- Served panel discussion as a Moderator for the topic "*The Global Pandemic has Far-Reaching Consequences that may Jeopardize Hard-Won Gains Made in Improving Global Education*" & "*How Gig Economy can Change the Face of Employment Post COVID*". in [Global Changemakers Summit 2020](#) a virtual Youth Global Conference on Sustainable Development to be held on 19th & 20th September, 2020
- Served as reviewer (in September 2020) for Data'20 (2020 IEEE International Conference on Data Analytics for Business and Industry), Bahrain <http://data20.uob.edu.bh/>
- Technical review committee member of Science and Engineering Research Board (SERB), Govt. of India
- *Technical Program Committee* of 2nd International Conference on “Recent Advances in Mechanical Engineering (RAME-2020)”, Department of Mechanical, Automobile and Production & Industrial Engineering and Centre for Energy and Environment Delhi Technological University September 18th-19th, 2020.
- *Technical Program Committee* of IEEE 9th International Conference on Communication System and Network Technologies (CSNT 2020), Gwalior, 10-12 April 2020.
- *Member of publicity committee* for the organization of the summit titled “International Summit on quality indices in Higher education” (ISQIHE 2020) organized by 19-21 March, DTU.
- *Technical Program Committee* of the International Conference on Artificial Intelligence and Sustainable Engineering (AISE 2020), at National Institute of Technology (NIT), Goa, India on 27th – 29th, Nov’ 2020, Springer.
- *Program committee member* of third International Conference on Recent Innovations in Computing (ICRIC-2020), organized by Central University of Jammu, J&K 20-21 March, 2020 (Springer).
- *Program committee member* for the eighth International Conference on Pattern Recognition and Machine Intelligence (PReMI) 2019, organized by Tezpur University (a Central University), India during 17-20 Dec. 2019.
- *Member of Initial Screening Committee* (ISC) at Technology Development Board (TDB), Delhi, Government of India, and evaluated the project proposal in “Cyber Security Domain” on 1 February 2019 at TDB, Delhi.

☞ Administrative work

- As an International Affairs official participated in the online education fair “Alfa Beta INDIA Education Virtual Fair” organized in Nepal on 17th August 2020.
- Admission Committee member of Foreign National Students (NRI and OCI under DASA) for the academic Year 2020-21.
- Administrative Officer Incharge of International Partnership & Visitation, International Affairs, DTU (Feb 19, 2020 to till now).
- Co-coordinator for ISO documentation preparation for CSE Department.
- Admission Committee member of International students’ admission 2020-21.

- University Ph.D. Coordinator for International students' admission 2020-21.
- Member of publicity committee for the organization of the summit titled "International Summit on quality indices in Higher education" (ISQIHE 2020) organized by 19-21 March DTU.
- Coordinated with a delegation from Taipei Economic and Cultural Center India regarding research opportunities on 24 February, 2020.
- Attended 2nd India Sakura Science Club Alumni Association(ISAA) held on (Saturday) February 15, 2020 at Indian Institute of Technology Delhi (IIT Delhi).
- Interacted with a delegation from Indo German Center for Higher Education, Germany and discussed various initiatives such as student exchange, joint research, faculty mobility etc. on 17th February, 2020.
- Member of Discipline committee during the Engifest 14-16 February, 2020.
- Jury Member for conducting and judging the teams of Smart India Hackathon 2020.
- As a BOS member attended a meeting regarding proposal of M.Tech. course in Artificial Intelligence.
- Coordinated with a delegation from National Formosa University, Taiwan regarding research and academic collaborations on January 17, 2019.
- Coordinated with a delegation from Embassy of Germany, Delhi and discussed various initiatives such as student exchange, joint research, faculty mobility etc. on 14th January, 2020.
- Coordinated with a delegation from Nanjing University of Aeronautics & Astronautics, China regarding research and academic collaborations on December 24, 2019.
- Member of recruitment committee of Assistant Professor selection in DTU.
- Member of Golden Pride Function held on December 12, 2019.
- Interacted with the delegation from International Cooperation and Foreign students Department from Rega Technical University, Latvia and discussed regarding future research and academic collaborations.
- Program coordinator for B.Tech. 3rd Semester orientation on August 2, 2019.
- Invited in a "Namaste Pacific "Reception on Friday 30 August, 2019 at New Zealand High Commission, New Delhi.

☞ Course/FDP/Workshop / Seminar/Conference attended/organized

1. Participated & completed AICTE Training And Learning (ATAL) Academy Online FDP on "*Leadership & Excellence*" from 2020-9-14 to 2020-9-18 at Faculty of Engineering & Technology.
2. Completed Two Weeks Faculty Development Programme on "*ADVANCED CONCEPTS FOR DEVELOPING MOOCS*" organized by Teaching Learning Centre, Ramanujan College, University of Delhi & sponsored by Government of India, Ministry of Human Resource Development, Pandit Madan Mohan Malaviya, National Mission on Teachers & Teaching from July 02 - July 17, 2020.
3. Participated in Faculty Development Programme (online live instructor-led) on "*Deep Learning & Applications*" conducted by Electronics and ICT Academy, IIT Roorkee from 22-30 June 2020.
4. Participated in two days HRDC training program on "*GSuite for Education Training*" July 1-2, 2020.
5. Participated in the one week online workshop on "*Recent Trends in Domination in Graphs: Algorithms, Complexity and Applications (WRTDG 2020)*" organized by the Department of Computer Science and Engineering in association with Centre for Continuing Education, National Institute of Technology Warangal from 15th - 19th June, 2020.
6. Participated in the one week online AICTE recognized Faculty Development Programme on "*Waste Management*" organized by Ministry of Human Resource Development, Government of India, Mechanical Engineering Department, National Institute of Technical

Teachers Training and Research (NITTTR) Chandigarh, from June 8 to June 12, 2020 (Certificate No: ICT-16253/20).

7. Participated in the one week online AICTE recognized Faculty Development Programme on "*Outcome Based Curriculum Design*" organized by Ministry of Human Resource Development, Government of India, Mechanical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh, from June 1 to June 5, 2020 (Certificate No: ICT-19699/20).
8. Participated in the one week online AICTE recognized Faculty Development Programme on "*Understanding Project Management Basics*" organized by Ministry of Human Resource Development, Government of India, Mechanical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh, from May 25 to May 29, 2020 (Certificate No: ICT-19033/20).
9. Participated in Online Training / Lecture on "*Landslide Mitigation using Flexible Solutions in Himalayan Terrain*" by Dr. Ratnakar R. Mahajan, Regional Technical Manager, Maccaferri Environmental Solutions Pvt. Ltd, Gurugram, on 30th May 2020, organized by Centre for Extension and Field Outreach, Delhi Technological University
10. Participated in Online Training / Lecture on "*Low Global Warming Potential - Eco Friendly Future Refrigerants*" By Prof. R.S. Mishra, DTU, Delhi on 26th May 2020 organized by Centre for Extension and Field Outreach, Delhi Technological University
11. Participated in Online Training / Lecture on "*Sustainable Energy Sources for the Transportation Applications*" by Prof. Amit Pal, DTU, Delhi on 14th May 2020 organized by Centre for Extension and Field Outreach, Delhi Technological University
12. Attended a one Day workshop on "*Blockchain Essentials for Educators*" conducted by Grant Thornton India LLP and OXFORD University Press, Noida, India on February 15, 2020.
13. Attended a TEQIP III sponsored One Week Faculty Development Programme on "*Recent Research Directions and Key Concepts in Electrical Engineering*" organized by Department of Electrical Engineering Delhi Technological University, Delhi with Twinning partner MITS Gwalior during December 2-6, 2019.
14. Attended a TEQIP III sponsored One Week Short Term Training Programme on "*Graph Theory and its Applications*" organized by Department of Applied Mathematics, Delhi Technological University, Delhi during November 25-29, 2019
15. Participated in one-week Short Term Training Program (STTP) on "*Recent Trends in Security and Cryptography*" organized by Department of Applied Mathematics, Delhi Technological University during November 18-22, 2019.
16. Participated and attended a one- week workshop on "*E-Resources: A Gateway for Research, (2-6 September 2019)*", organized by Central Library, Delhi Technological University.
17. Participated and attended in TEQIP-III sponsored one-week Short Term Training Programme (STTP) on "*Recent Trends in AI and Machine Learning*" during 29 July-2 August 2019 organized by Department of Information Technology, Delhi Technological University.
18. Participated and attended in TEQIP-III sponsored one-week Staff Development Program Program on "*Electronics Design Automation and Documentation Tools*" during July 22-26, 2019 organized by Department of Electronics & Communication Engineering, Delhi Technological University.
19. Participated in the **5th International Day of Yoga** held on 21st June 2019 at Delhi Technological University.
20. Participated and attended in TEQIP-III sponsored one-week Faculty Development Program on "*Machine Learning for Pattern Recognition (MLPR-2019)*" during June 10-14, 2019 organized by Department of Information Technology, Delhi Technological University.
21. Participated and attended in TEQIP-III sponsored one-week Faculty Development Program on "*Earthquake Resistant Design of Structures*" during May 27-31, 2019 organized by Department of Civil Engineering, Delhi Technological University.

22. Participated and attended TEQIP-III sponsored One Day International Workshop on *"Networking of Technology and Education for Sustainable Development"* on October 12, 2018, organized by Department of Civil Engineering, Delhi Technological University.
23. Participated and attended in TEQIP-III sponsored one-week Lecture series on *"Bondgraph Modelling & Simulation (BMS-2018)"* during October 1-5, 2018 organized by Technical Education Quality Improvement Program-III, Delhi Technological University.
24. Participated and attended in TEQIP-III sponsored one-week Faculty Development Program on *"Recent Trends in Material Science & Engineering"* during September 17-21, 2018 organized by Department of Applied Physics, Delhi Technological University.
25. Participated and attended a Three days' course on *"e-waste training for the Govt. Officials"* during 28th October-30th October 2018, organized by National Institute of Electronics and Information Technology (NIELIT), Ministry of Electronics and Information Technology (MeitY), Govt. of India.
26. Participated and attended a one-week workshop on *"E-Resources: A Gateway for Research, 3rd Edition (2018)"*, organized by Central Library Delhi Technological University.
27. **Coordinated and organized** a One-day international Seminar on 21st August 2018, on *"Recent Trends in Big Data Analytics"* in Delhi Technological University, collaboration with various New Zealand universities: Auckland University of Technology, the University of Waikato and University of Auckland.
28. Participated in the **4th International Day of Yoga** held on 21st June 2018 at Delhi Technological University.
29. Participated and attended in TEQIP-III sponsored Two-week Faculty Development Program on *"Advances in Research Methods and Teaching Pedagogy"* during June 18-29, 2018 organized by Delhi School of Management, Delhi Technological University.
30. Participated and attended TEQIP-III sponsored one-week faculty development program on *"Polymer Analysis and Applications: Current Scenario"* during 4-8 June 2018, organized by Department of Applied Chemistry, Delhi Technological University.
31. Participated and attended TEQIP-III sponsored one-week faculty development program on *"Feature Engineering for Pattern Recognition"* during May 1st - May 5th, 2018 organized by Department of Information Technology, Delhi Technological University.
32. Participated and attended TEQIP-III sponsored one-week faculty development program on *"Machine Learning in Predictive Modeling"* during April 23-27, 2018 organized by Department of Computer Science & Engineering, Delhi Technological University.
33. Participated and attended TEQIP-III sponsored a one-week faculty development program on *"Health, Human Values, Ethics and Empowerment"* during April 13-18, 2018 organized by Department of Information Technology, Delhi Technological University.
34. Attended one-day Workshop on *"Teaching Pedagogy"* organized by Academic Section (UG), Delhi Technological University, Delhi on April 7, 2018.
35. Participated and attended TEQIP-III sponsored One Week Short Term Training Program on *"Advances in Image Processing and Computer Vision"* Organized by Department of Electronics & Communication Engineering, Delhi Technological University, Delhi during April 2-6, 2018.
36. Participated and attended TEQIP-III sponsored an international seminar on *"Sustainable Technologies for Environmental Management (STEM-2018)"* during March 27-28, 2018 organized by Department of Environmental Engineering, Delhi Technological University.
37. Participated in a One Day Workshop on *"Raising Awareness on plagiarism and copyrights"* organized by Department of ECE, DTU on 20th March 2018.
38. Attended TEQIP-III Sponsored One-week Faculty Development Programme on *"Recent Developments in Translational Medicine (RDTM-2018)"* organized by Department of Biotechnology, DTU from 12-16 March 2018.
39. Attended one-day National Workshop on *"Recent Advances in Alternative Energy Sources"* organized by Department of Mechanical Engineering, DTU on 29th January 2018.
40. Participated and attended a one-week workshop on *"E-Resources: A Gateway for Research"*, September 4-8, 2017, organized by Central Library Delhi, Technological University.

41. Completed a Short Term Training Programme on “*Research Methodology*” held at Delhi School of Management, DTU from 14-18 December 2016.
42. Completed TEQIP-II sponsored one-week Faculty Development Programme on “*Environmental Pollution: Monitoring & Control (EPMC-2016)*” held during 24-28 October 2016, organized by Department of Environment Engineering, Delhi Technological University.
43. Participated and attended a one-week workshop on “*E-Resources: A Gateway for Research*”, September 5-9, 2016, organized by Central Library Delhi, Delhi Technological University.
44. **Awarded Certificate of Excellence** in the organization of International Conference titled “*IEEE India International Conference on Information Processing (IICIP 2016)*” held on 12-14 August 2016 organized by Department of Computer Science & Engineering at Delhi Technological University in the capacity of Member, IICIP 2016.
45. Participated in one-week TEQIP-II sponsored Faculty Development Program on “*Research and Publication*”, organized by Department of Humanities from 25-29, July 2016.
46. Participated in one-week TEQIP-II sponsored Faculty Development Program on “*Statistical Methods & a Brief on LaTeX*”, organized by Department of Applied Mathematics, Delhi Technological University from 18-22 July 2016.
47. Participated in one-week TEQIP-II sponsored Faculty Development Program on “*Recent trends in pattern analysis and Machine learning*”, organized by Department of Electronics and Communication Engineering from 11-15 July 2016.
48. Participated in one-week TEQIP-II sponsored Short Term Training Program on “*PLC, HMI, SCADA & AC DRIVES*”, organized by Department of Electrical Engineering, Delhi Technological University from 13-17 June 2016.
49. Participated in one-week TEQIP-II sponsored Faculty Development Program on “*Recent Trends in Geo-environmental Engineering (RTGE-2016)*”, organized by Department of Civil Engineering, Delhi Technological University, from 18-22 April 2016.
50. Participated in One-week AICTE-NITTTR sponsored short term course on “*Introduction to System Designing*” from 4-8 April 2016, organized by Department of Electronics and Communication Engineering, AIACTR Delhi.
51. Participated in One Day National Seminar on “*Frontiers in Applied Science & Technology*” (FAST-2016) on March 22, 2016, organized by Department of Applied Physics, Delhi Technological University.
52. Participated in one-week TEQIP-II sponsored Faculty Development Program on “*Advances in Information Security (AIS-2016)*”, organized by Department of Computer Science & Engineering, Delhi Technological University from 18-22 January 2016.
53. Participated in One Week Faculty Development Program under TEQIP-II on “*Recent Advances and challenges in Power & Energy for Sustainable Growth*” held during June 1-5, 2015 organized by the Electrical Engineering Department, DTU.
54. Participated in Two Week Faculty Development Program under TEQIP-II on “*Automation in Manufacturing (AIM-2015)*” during 4-15 May 2015 organized by Department of Mechanical, Production and Industrial Engineering, DTU Delhi.
55. Attended the UGC Sponsored One Day “National Seminar on Recent Advances on Physics (NSRAP-2015)” held at Delhi Technological University, Delhi on February 16, 2015.
56. Participated in Two weeks, UGC Sponsored Short Term Training Programme on “*Integrating Renewable Energy Sources into emerging Electrical Power Systems*” Organized by Department of Electrical Engineering, DTU on 8-19 December 2014.
57. Participated in TEQIP-II sponsored Two-Week Short Term Training Programme on “*Advanced Web Designing Techniques*” during 14-25 July 2014, organized by Department of Applied Mathematics, Delhi Technological University, Delhi.
58. **Co-Coordinated and organized** One Week Short Term Training Program on “*Recent Advances in Pattern Recognition and Image Processing using Soft and Evolutionary Computing*” organized by Department of Information Technology, DTU from 7th -11th July 2014.
59. Participated in AICTE recognized Short Term Course on “*Virtual Instrumentation through ICT*” organized by DTU and NITTTR Chandigarh, from 28th April to 2nd May 2014

60. Attended the UGC sponsored One Week Short Term Training Programme on "*Signal Processing in Modern Electrical Systems*" organized by Department of Electrical Engineering, Delhi Technological University, Delhi during 9-13 December 2013.
61. Completed "*Water Sector Training and Capacity Building Programme for The National Capital Territory of Delhi, India*" conducted by Nanyang Technological University Singapore, EMASEK Foundation Singapore, My Anchor Foundation Singapore at DTU on 16-20 September 2013.
62. Participated in AICTE recognised Short Term Course on "*Cloud Computing Through ICT*" from July 29 - August 2, 2013, organized by NITTTR Chandigarh (Ministry of Human Resources Development, Government of India) & Delhi Technological University, Delhi.
63. Participated in International Summer School "*Building Learning in Sustainability Science (BLISS)*" International program conducted by TERI University, New Delhi on 15-19 July 2013.
64. Attended International Workshop on "*Computational Intelligence: Theories, Applications and Future Directions*" conducted by Department of Electrical Engineering, Indian Institute of Technology(IIT), Delhi and IEEE CIS Chapter-Delhi on 13-14 July 2013.
65. Participated & completed the Faculty Development Programme on "*Image Processing, Computer Vision and Pattern Recognition*" conducted from June 18-22, 2013 at National Institute of Delhi.
66. **Organized as coordinator** and also Participated in Two-day Workshop on "*Intellectual property Rights meets Information Technology- Series II*" organized by Department of Information Technology & Delhi School of Management, on 2-3 May 2013.
67. Participated in "*Advanced Workshop on Low Power- 'Green' Embedded Systems Design*" organized by Department of Electronics & Communications Engineering, DTU and RENESAS University and FRONTLINE Electronics on 28-30- April 2012.
68. Participated in Seminar-cum-Workshop on Mathematics and Computing (SWMC-12) on March 22, 2012, organized by Department of Applied Mathematics, DTU.
69. Awarded certificate of completion of the "*Innovation Readiness Series*" organized by IC2 Institute University of Texas, Austin and Federation of Indian Chambers of Commerce, Industry (FICCI) and DTU on December 18, 2011
70. Participated in Workshop on "*Embedded System Design using RISC processor MSP-430*" organized by Department of Electronics, DTU on 12-14 December 2011.
71. Participated in Two Weeks Staff Development Program of All India Council for Technical Education (AICTE) on "*Flexible A.C. Transmission Systems and Power System Voltage Stability: Recent Advances*" organized by Delhi Technological University, Delhi on July 11-22, 2011.
72. Participated in One Week Specialized Training course on "*S.P.S.S. (Statistical Package for Social Sciences)*" from June 06-10, 2011 organized by University of Delhi, Delhi, India
73. Participated in the Three Days' Workshop on "*Technology Knowledge creation and innovation Ecosystem*", Sponsored by Department of Information Technology, Government of Delhi, held at International Management Institute (IMI), New Delhi February 7-9, 2011.
74. Participated in Specialized Training course on "*A.S.P. (Active Server Pages)*" from December 13-24, 2010 organized by University of Delhi, Delhi, India
75. Participated in Two Days of National Conference on "*Innovations in Engineering (Innovation Conclave)*" organized by Delhi Technological University, Delhi on November 1-2, 2010.
76. Participated in Two Days of "*National Symposium on Biotechnology Genomics-Meet (NaSBI 2010)*" organized by Department of Biotechnology, Delhi Technological University, Delhi on October 29-30, 2010.
77. Organized and participated in the two days' workshop on "*Intellectual property Rights meets Information Technology*" organized by Department of Information Technology, Delhi Technological University, Delhi, on October 25-26, 2010.
78. Participated in One Day Seminar on "*CAN and CANopen Technology*" organized by Department of Electrical Engineering, Delhi Technological University, Delhi on September 29, 2010.

79. Participated in "International Conference on Contemporary Computing IC3" August 17-19, 2009 organized by IIIT India jointly with the University of Florida, Gainesville, USA.
80. Participated in a one-day workshop, "Digital Media Workshop" organized by IIIT-Delhi on December 29, 2016.
81. Participated in Webinar series on "Air pollution and cities" organized by TERI university Vasnat Kunj Delhi on 19th "October 2015.
82. Attended International Symposium on Standards in Engineering and Technology, 4-6 October 2011 in DTU.
83. Participated in National Electrical Engineering Conference NEEC-2011 of "Power & Energy Systems for tomorrow" held on 16-17 December 2011.
84. Program Committee Member, International Workshop on Security and cognitive informatics for Homeland defence (SeCIHD- '2011) for August 22-26, 2011, Vienna, Austria. <http://isyou.hosting paran.com/secihd11/#Important Dates>
85. Participated in one Day Seminar on "GIS for Engineers" on March 20, 2004
86. Participated & organized National Conference on "Microchips Design & Technology" on March 6-8, 2003.

☞ International Conference Publications

1. Shreya Verma, Sharat S Kariyannavar, Aditya Paul, **Rahul Katarya**, "*Understanding the Applications of Natural Language Processing on COVID-19 Data*" 4th International Conference on Electronics, Communication and Aerospace Technology - ICECA 2020, Coimbatore, India during 5-7 November 2020 (Accepted).
2. Samarth Garg, Divyansh Singh Panwar, Aakansha Gupta, **Rahul Katarya**, "*A Literature Review On Sentiment Analysis Techniques Involving Social Media Platforms*", 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India, 6-8 Novemebr 2020(Accepted).
3. Lokesh Singh, Prabhat Gupta, **Rahul Katarya**, Pragyat Jayvant, "*Significance of Twitter data in Emotional Analysis*", 4th International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2020), 7-9, October 2020 by SCAD Institute of Technology at Palladam, India (Accepted).
4. **Rahul Katarya**, Garvit Rana, Eklavya Bhatia, Ejaz ul Haq, "*The Significance of Defect Predictors Tuning in Software Analytics*", 4th International Conference on Electronics, Communication and Aerospace Technology - ICECA 2020, Coimbatore, India during 5-7 November 2020 (Accepted).
5. Anjali Gautam, Divya Koli, **Rahul Katarya**, Sweety Pandurang Bandgar, "*Analyzing Customer Sentiments Using Machine Learning Techniques to improve Business Performance*" 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking –ICACCCN (ICAC3N-20), December 18-19, 2020 in Galgotias College of Engineering and Technology, Greater Noida, India (Accepted)
6. Karan Keswani, Indrajeet Das, Bhanu Shrivastava, Aakansha Gupta, **Rahul Katarya**, "*LDA based model for mining textual features from financial news articles*", 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking –ICACCCN (ICAC3N-20), December 18-19, 2020 in Galgotias College of Engineering and Technology, Greater Noida, India (Accepted).
7. **Rahul Katarya**, Anushka Lal, "*A study on combating emerging threat of Deep Fake Weaponization*", 4th International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC 2020), 7-9, October 2020 by SCAD Institute of Technology at Palladam, India (Accepted).
8. Rahul, **Rahul Katarya**, "*Impact of Supervised Classification Algorithms for the Prediction of Students Performance*", 4th International conference on I-SMAC (IoT in Social, Mobile,

- Analytics and Cloud) (I-SMAC 2020), 7-9, October 2020 by SCAD Institute of Technology at Palladam, India (Accepted).
9. **Rahul Katarya**, Aarnav Jindal, Abhinav Duggal, Abhishek Shah "A Novel Polycystic Ovarian Syndrome Diagnostic System using Machine Learning" Springer ICCIN2020 International Conference on Computing Informatics & Networks, Department of Computer Science and Engineering, Bhagwan Parshuram Institute of Technology, Delhi, India, July 29-30, 2020 (Accepted).
 10. **Rahul Katarya**, Saurav Maan, "Stress Detection using Smartwatches using Machine Learning: A Survey" IEEE International Conference on Electronics and Sustainable Communication Systems (ICESCS 2020), Hindustan Institute of Technology, Coimbatore, India, July 2-4, 2020 (presented).
 11. **Rahul Katarya**, Polipireddy Srinivas, "Predicting Heart Disease at Early Stages using Machine Learning: A Survey" IEEE International Conference on Electronics and Sustainable Communication Systems (ICESCS 2020), Hindustan Institute of Technology, Coimbatore, India, July 2-4, 2020 (presented).
 12. **Rahul Katarya**, Daizy Mehta, Japneet Singh, "Location-Based Human Behaviour Analysis On Products Or Events" IEEE International Conference on Electronics and Sustainable Communication Systems (ICESCS 2020), Hindustan Institute of Technology, Coimbatore, India, July 2-4, 2020 (presented).
 13. **Rahul Katarya**, Mahboob Massoudi, "Recognizing Fake News in Social Media with Deep Learning: A Systematic Review", 4th IEEE Sponsored International Conference on Computer, Communication and Signal Processing (ICCCSP 2020), Department of Information Technology, SSN College of Engineering, Rajiv Gandhi Salai, Kalavakkam, Chennai, Tamilnadu, India, April 22-23, 2020 (Accepted)
 14. **Rahul Katarya**, Sajal Jain, "Exploration of Big Data Analytics in HealthCare Analytics", 4th IEEE Sponsored International Conference on Computer, Communication and Signal Processing (ICCCSP 2020), Department of Information Technology, SSN College of Engineering, Rajiv Gandhi Salai, Kalavakkam, Chennai, Tamilnadu, India, April 22-23, 2020 (Accepted).
 15. **Rahul Katarya**, Vinay Kumar Vats, "A Survey on Blockchain Technologies and its Consensus Algorithms", 3rd Springer (LNEE approved) International Conference on Recent Innovations in Computing (ICRIC-2020), Central University of Jammu, J & K. 20th-21st March, 2020 (Accepted).
 16. **Rahul Katarya**, Pradyot Raina, Mukul Mahaliyan, Ryan Bansal and Raghav Mehta, "Bot Detection in Social Networks using Stacked Generalization Ensemble", 3rd Springer (LNEE approved) International Conference on Recent Innovations in Computing (ICRIC-2020), Central University of Jammu, J & K. 20th-21st March, 2020 (Accepted).
 17. **Rahul Katarya**, Aamir Mustafa, "Blockchain and Consensus Algorithms" in the Elsevier International Conference on Innovative Computing and Communication (ICICC-2020) at Shahed Sukhdev College of Business Studies, University of Delhi on February 21-23, 2020 (presented).
 18. Madhuri Yadav, **Rahul Katarya**, "Polarity Shift Detection and handling in Polarity Classification: A Survey" in the Elsevier International Conference on Innovative Computing and Communication (ICICC-2020) at Shahed Sukhdev College of Business Studies, University of Delhi on February 21-23, 2020 (presented).
 19. Vinay Dubey, **Rahul Katarya**, "An Analysis of Machine Learning Techniques for Flood mitigation" in the Springer International Conference on Innovative Computing and Communication (ICICC-2020) at Shahed Sukhdev College of Business Studies, University of Delhi on February 21-23, 2020 (presented).
 20. Sunit Meena, **Rahul Katarya**, "Various Deep Learning Approaches in Electronic Health Records" in the Springer International Conference on Innovative Computing and Communication (ICICC-2020) at Shahed Sukhdev College of Business Studies, University of Delhi on February 21-23, 2020 (presented).

21. **Rahul Katarya**, Abhinav Thapper, Ashutosh Raturi, Abhinav Mehndiratta "*Impact of Machine Learning Techniques in Precision Agriculture*" in 3rd IEEE International Conference on Emerging Technologies in Computer Engineering (ICETCE 2020), organized by Computer Science/Information Technology Department, Swami Keshvanand Institute Of Technology Management & Gramothan, Jaipur, India held on February 7-8, 2020 (presented).
22. Rahul, **Rahul Katarya**, "*A Review: Predicting the performance of students using classification Techniques*" in 3rd International Conference on IoT in Social, Mobile, Analytics and Cloud (ISMAC 2019) organized by SCAD Institute of Technology during 12-14 December 2019 at Pallam, India (presented).
23. Garima Gupta, **Rahul Katarya**, "*Recommendation Analysis on Item-based and user-based Collaborative Filtering*" in 2nd International Conference on Smart Systems and Inventive Technology (ICSSIT 2019) organized by Francis Xavier Engineering College Tirunelveli, India, 27-29 November 2019 (presented).
24. Lokesh Jain, **Rahul Katarya**, Shelly Sachdeva, "*Opinion Leader discovery based on Text analysis in Online Social Network*" in 4th IEEE International Conference on Information Systems and Computer Networks (ISCON)" organized by Department of Computer Engineering & Applications, GLA University, Mathura (UP), India held on November 21-22, 2019 (presented).
25. Deepanshu Malhotra, **Rahul Katarya**, "*A survey of Different Methods in finding Latent Relationships among Complex Networks*" in 4th IEEE International Conference on Information Systems and Computer Networks (ISCON)" organized by Department of Computer Engineering & Applications, GLA University, Mathura (UP), India held on November 21-22, 2019 (presented).
26. Yshika Agarwal, **Rahul Katarya**, Dilip Sharma, "*Deep Learning for Opinion Mining: A Systematic Survey*" in 4th IEEE International Conference on Information Systems and Computer Networks (ISCON)" organized by Department of Computer Engineering & Applications, GLA University, Mathura (UP), India held on November 21-22, 2019 (presented).
27. **Rahul Katarya**, Diksha Gautam, "*Survey on Opinion Leader in Social Network using Data Mining*", 5th IEEE International Conference on Advanced Computing & Communication Systems (ICACCS), Organized by Sri Eshwar College of Engineering, Chennai, 15-16 March 2019, India (presented).
28. **Rahul Katarya**, Yamini Arora, "*Study on Text Classification using Capsule Networks*", 5th IEEE International Conference on Advanced Computing & Communication Systems (ICACCS), Organized by Sri Eshwar College of Engineering, Chennai, 15-16 March 2019, India (presented).
29. Lokesh Jain, **Rahul Katarya**, Shelly Sachdeva, "*Role of Opinion Leader for the diffusion of products using Epidemic model in Online Social Network*", 12th IEEE International Conference on Contemporary Computing (IC3) 08-10 Aug 2019, IIIT, Noida, India.
30. Lokesh Jain, **Rahul Katarya** "*Identification of opinion leader in online social network using fuzzy trust system*" on 14 December 2018 - 15 December 2018, 2018 IEEE 8th International Advance Computing Conference (IACC), Bennett University, Greater Noida, Uttar Pradesh, India (presented).
31. Garima Gupta, **Rahul Katarya** "*A Study of Recommender Systems using Markov Decision Process*" in IEEE International Conference on Intelligent Computing and Control Systems (ICICCS 2018), organized by Vaigai College of Engineering, Madurai, 14-15 June 2018 (presented).
32. Divya Jain, **Rahul Katarya**, a research paper entitled as "*A Study on Review Spam Detection Techniques using Machine Learning Algorithms*" in IEEE International Conference on Recent Trends in Computational Engineering and Technologies (ICTRCET-18), Organized by Department of Computer Science & Engineering, RajaRajesWari College of Engineering, Bangalore, 17-18 May 2018 (presented).

33. **Rahul Katarya**, Parvesh Mamgain “*A Survey on Android Malware Detection Technique*” in IEEE 3rd International Conference on Recent Trends in Computer Science and Technology (ICRTCST-2018) organized by Department of Computer Science & Engineering, RVSCET, Jamshedpur, Jharkhand, 24th-25th April 2018 (presented).
34. Sharvi Tomar, **Rahul Katarya** “*A Survey on Internet Classification Techniques*” in IEEE 3rd International Conference on Recent Trends in Computer Science and Technology (ICRTCST-2018) organized by Department of Computer Science & Engineering, RVSCET, Jamshedpur, Jharkhand, 24th-25th April 2018 (presented).
35. **Rahul Katarya** “*Analyzing Behavior of Spam Tweets in Machine Learning Environment*” in 6th IEEE International Conference on Contemporary Engineering and Technology, Organized by Organization of Science and innovative Engineering Technology (OSIET) Chennai India, 10-11 March 2018 (presented).
36. Dinesh Kumar Yadav, **Rahul Katarya** “*Study on Recommender System using Fuzzy Logic*” in the 2nd IEEE International Conference on Computing Methodologies and Communication (ICCMC 2018), organized by Surya Engineering College, Tamil Nadu 15-16 February 2018 (presented).
37. **Rahul Katarya**, Chhavi Jain “*Multilayered Risk analysis of Mobile System and apps*” in the 2nd IEEE International Conference on Computing Methodologies and Communication (ICCMC 2018), organized by Surya Engineering College, Tamil Nadu, 15-16 February 2018 (presented).
38. Lokesh Jain, **Rahul Katarya** “*A Systematic Survey of Opinion Leader in Online Social Network*” in IEEE International Conference on Soft-computing and Network Security (ICSNS’18), organized by SNS College of Technology, Tamil Nadu 14 to 16 February 2018 (presented).
39. **Rahul Katarya**, Yamini Arora, “*A Survey of Recommendation System in Twitter*” in the 4th IEEE International Conference on Computational Intelligence & Communication Technology CICT 2018, organized by ABES Engineering College, Ghaziabad, 9-10 February 2018 (presented).
40. **Rahul Katarya**, Parvesh, “*A Study on Various Malicious Software and Malware*” in IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)-2018, 28th-29 January 2018 (presented).
41. **Rahul Katarya**, Ashima Yadav, “*A Comparative Study of Genetic algorithm in Sentiment Analysis*” in 2nd IEEE International Conference on Inventive Systems and Control (ICISC 2018), organized by JCT College of Engineering and Technology, Coimbatore, 19-20 January 2018 (presented).
42. **Rahul Katarya**, Shubham Rastogi, “*A Study on Neural Networks Approach to Time-Series Analysis*” in 2nd IEEE International Conference on Inventive Systems and Control (ICISC 2018), organized by JCT College of Engineering and Technology, Coimbatore, 19-20 January 2018 (presented).
43. **Rahul Katarya**, Shefali Anand, “*A study of GUI based technologies in e-commerce applications*” in 2nd IEEE International Conference on Inventive Systems and Control (ICISC 2018), organized by JCT College of Engineering and Technology, Coimbatore, 19-20 January 2018 (presented).
44. **Rahul Katarya**, Vivek Gangwar, Ishita Jaisia, “*A study on Different Data Mining Classifiers*” in the IEEE Conference on Computer Communication and Informatics (ICCCI-18), organized by Sri Shakti Institute of Engineering & Technology, India, 4-6 January 2018 (presented).
45. **Rahul Katarya**, Tushar Prasad, “*A Survey on Time Series Online Sequential Learning Algorithms*” in IEEE International Conference on Computational Intelligence and Computing Research (ICCIC 2017 organized by Tamilnadu College of Engineering, Tamilnadu, India, 14-16 December 2017 (presented).
46. **Rahul Katarya**, “*Analyze the Check-in behaviour in location-based recommender systems*” in International Conference on Current Trends in Theoretical and Computational

- Differential Equations with Applications organized by Department of Mathematics, South Asian University, New Delhi, 1-5 December 2017 (presented).
47. **Rahul Katarya**, "*An Intelligent Framework for Health Estimation with Naïve Bayes Approach*" in IEEE International Conference on Inventive Computing and Informatics (ICICI 2017) organized by Ranganathan Engineering College, Tamil Nadu, India 23-24 November 2017 (presented).
 48. **Rahul Katarya**, Anil Singh Parihar, "*Study on Privacy preserving recommender systems datasets*" in IEEE International Conference on Inventive Computing and Informatics (ICICI 2017), Organized by REC, Tamil Nadu, 23-24 November 2017 (presented).
 49. **Rahul Katarya**, "*An Improved Recommender System Using Two-Level Matrix Factorization for Product Ontologies*" in IEEE International Conference on Intelligent Sustainable System (ICISS 2017) organized by SCAD Institute of Technology, Tamilnadu India, 7-8 November 2017 (presented).
 50. **Rahul Katarya**, "*A Systematic review of group recommender systems techniques*" in IEEE International Conference on Intelligent Sustainable System (ICISS 2017) organized by SIT India, 7-8 November 2017 (presented).
 51. **Rahul Katarya**, Anmol Mahajan, "*A Survey of Neural Network Techniques in Market Trend Analysis*" in IEEE International Conference on Intelligent Sustainable System (ICISS 2017) organized by SCAD Institute of Technology, Tamilnadu India, 7-8 November 2017 (presented).
 52. **Rahul Katarya**, Nishant Verma, "*Automatically Detection and Recommendation in Collaborative Group*" in IEEE International Conference on Intelligent Sustainable System (ICISS 2017) organized by SIT India, 7-8 November 2017 (presented).
 53. Kunal Bhargava, **Rahul Katarya** "*An Improved Lexicon using Logistic Regression for Sentiment Analysis*" in IEEE International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN 2017), organized by GD Goenka University, Gurgaon, India 12-14 October 2017 (presented).
 54. **Rahul Katarya**, Om Prakash Verma, "*Privacy-preserving and secure recommender system enhance with K-NN and social tagging*", IEEE 4th International Conference Cyber Security Cloud Computing (CSCloud), 26-28 June 2017, USA (presented).
 55. **Rahul Katarya**, Manika Rajan, Om Prakash Verma, "*Location-based recommender system using enhanced random walk model*", 4th IEEE International Conference on Parallel, Distributed and Grid Computing, organized by Department of Computer Science & Engineering & Information Technology, Jaypee University of Information Technology, Solan, Himachal Pradesh, India during 22-24, December 2016 (presented).
 56. **Rahul Katarya**, Om Prakash Verma, "*Effective collaborative movie recommender system using asymmetric user similarity and matrix factorization*", IEEE International Conference on Computing, Communication and Automation (ICCCA2016) organized by School of Computing Science and Engineering, Galgotias University, 29-30 April 2016 (presented).
 57. **Rahul Katarya**, Om Prakash Verma, "*Restaurant Recommender System Based on Psychographic and Demographic Factors in Mobile Environment*" in IEEE International Conference on Green Computing & Internet of Things, Galgotias College of Engineering & Technology, Greater Noida, India, 8-10 October 2015 (presented).
 58. **Rahul Katarya**, Ivy Jain, Hitesh Hasija, "*An Interactive Interface for Instilling Trust and providing Diverse Recommendations*" 4th IEEE International Conference on Computer and Communication Technology (ICCCT), MNNIT Allahabad, UP, India, 26-28 September 2014.
 59. Hitesh Hasija, **Rahul Katarya**, "*Secure code assignment to alphabets using modified ant colony optimization along with compression*", 3rd IEEE International Conference on Advances in Computing, Communications & Informatics (ICACCI), Galgotias College of Engineering & Technology, Greater Noida, India, 24-27 September 2014.
 60. **Rahul Katarya**, Om Prakash Verma, Ivy Jain, "*User behaviour analysis in context-aware recommender system using hybrid filtering approach*". IEEE 4th International Conference

on Computer and Communication Technology (ICCCT), MNIT, UP, India, 20-22 September 2013.

61. Om Prakash Verma, **Rahul Katarya**, Vishal Bhargava, Nikhil Maheshwari, "*Use of semantic web in enabling desktop based knowledge management*", IEEE 3rd International Conference on Electronics Computer Technology(ICECT 2011), Kanyakumari, India, 8-10 April 2011.
62. **Rahul Katarya**, "*A Centric approach to amalgamate code reusability with reverse engineering*", in International Conference on Arts, Science Management & Engineering, 23-25 April, 2009, Goa, India (presented).
63. **Rahul Katarya**, "*A Classification of design patterns to be used as a requirement engineering tool*", in International Conference on Arts, Science Management & Engineering, 23-25 April, 2009, Goa, India (presented).
64. **Rahul Katarya**, "*E-Order fast food System in the PHP Language*", in International Conference on Arts, Science Management & Engineering, 23-25 April, 2009, Goa, India (presented).
65. Pawan Kumar Verma, Neetu Singh, **Rahul Katarya**, "*J2EE framework perspective for security augmentation*" IEEE Region 10, Annual International Conference, TENCON, Singapore, 23-26 November, 2009.

☞ M.Tech Students

Sr. No	Session	Title of Thesis	Name of students	Date of award	Name of the Co-guide if any
1.	2009-2011	Improve Web Information Quality Using Advance Searching Methodologies and Information Retrieval Techniques	Vishal Bhargava, 18/IS/09	27/09/2011	NIL
2.	2010-2012	A Similarity Based Efficient Image Retrieval System	S.Madhu, 11/IS/10	24/09/2012	NIL
3.	2010-	Opinion Mining and Sentiment Analysis	Dinesh Kumar, 02/IS/10	24/09/2012	NIL
4.	2011-2013	A Global Rule Pruning for ACO in Classification Task of Data Mining	Maheshwar,2K11/ISY/14	28/1/2014	NIL
5.	2011-2013	Mining Feature-Opinion From Customer Reviews For Sentiment Classification	Kamal Vashisht, 2K11/ISY/11	28/1/2014	NIL
6.	2012-2014	An Optimized Recommender System with Enhanced Hybrid Filtering Approach	Sanchit Jain, 2K12/ISY/23	6/10/2014	NIL
7.	2012-2014	An Interactive Interface for Instilling Trust and Providing Diverse Recommendations	Ivy Jain, 2K12/ISY/13	6/10/2014	NIL
8.	2013-2015	An Effective Optimized Recommender System based on Feature Selection	Hitesh Hasija, 2K13/ISY/08	13/10/2015	NIL
9.	2013-2015	Recommender System Based on Affective Feedback Incorporating Hybrid Optimization Algorithm	Harsh Khatri, 2K13/ISY/07	13/10/2015	NIL
10.	2013-2015	Optimized Collaborative Recommendation Algorithm For Auto Detected Groups	Nishant Verma, 2K13/SWT/09	7/11/2016	NIL
11.	2014-2016	An Improved Recommender System Using Two-level Matrix Factorization For Product Ontologies	Isha Dubey, 2K14/ISY/04	4/11/2016	NIL
12.	2014-2016	Location Based Recommender System Using Enhanced Random Walk Model	Manika, 2K14/ISY/06	8/10/2016	NIL
13	2015-2017	An Improved Lexicon Using Logistic Regression For Sentiment Analysis	Kunal Bhargava, 2K15/ISY/12	31/10/2017	NIL
14.	2015-2017	Processing Health Examination Record With Semi Supervised Learning and	Vinay Vajpae, 2K15/ISY/21	9/11/2017	NIL

15.	2016-2018	An Enhanced Model for Disaster Management using Social Network and Machine Learning Techniques	Divya Jain 2K16/ISY/04	3/10/2018	NIL
16.	2016-2018	An Optimized Path Planning Algorithm Based on Soft Computing	Saurabh Kumar Mishra 2K16/ISY/12	3/10/2018	NIL
17.	2017-2019	A Novel Recommender System using Deep Learning to Enhance the Rating Prediction and Top-N Recommendation	Yamini Arora 2K17/ISY/16	6/9/2019	NIL
18	2018-2020	Securing Electronic Health Records Using Blockchain and Inter Planetary File System	Aamir Mustafa (2K18/CSE/01)	18/9/2020	NIL
19	2018-2020	Heart Disease Prediction using Optimal Feature Set and Artificial Neural Network	Sunit Meena (2K18/CSE/18)	18/9/2020	NIL
20	2018-2020	The Significance of Deep Learning Methodologies in Collaborative Recommender System	Diksha Gautam (2K18/SWE/05)	18/9/2020	NIL
21	2018-2020	(In Progress)	Vinay Vats (2K18/SWE/22)	(In Progress)	NIL
22	2019-2021	(In Progress)	Sajal Jain 2K19/SWE/13	(In Progress)	NIL
23	2019-2021	(In Progress)	Saurav Mann 2K19/SWE/14	(In Progress)	NIL
24	2019-2021	(In Progress)	Polipireddi Srinivas Polipireddy 2K19/SWE/21	(In Progress)	NIL
25	2019-2021	(In Progress)	Mahboob Massoudi 2K19/CSE/26	(In Progress)	NIL

☞ Details of Ph.D. Research Scholars

S.No.	Name	Title/Area	Roll Number	Research Status
1	Garima Gupta	Towards Efficient Recommender Systems using Computational Intelligence	2K17/PHD/CO/05	In progress/SRC completed on 28/11/2018
2	Lokesh Jain	Study on Opinion Leader in Online Social Network using Computational Intelligence	2K17/PHD/CSE/10	In progress/SRC completed on 28/11/2018
3	Aakansha Gupta	Designing an Efficient Public Health Surveillance System using Machine Learning	2K18/PHD/CO/10	In progress/SRC completed on 25/07/2019
4	Anjum	Detection and Analysis of Online Hate Speech using Artificial Intelligence	2K18/PHD/CO/503	In Progress/ SRC completed on 29/06/2020
5	Madhuri Gupta	Online Social Networks, NLP	2K18/PHD/CO/11	In Progress
6	Rahul	Data Mining, Education Learning	2K18/PHD/CO/19	In Progress
7	Vinay	Disaster Management, Big Data	2K18/PHD/CO/04	In Progress