Dr. Mayank Aggarwal

Q.N0-4, Professor's Colony, GKV, Haridwar, Uttarakhand 249404

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mayank@gkv.ac.in

www.mayankagr.in

PROFESSIONAL SUMMARY

Dynamic Computer Engineering Professor with 20 years of illustrious experience in pioneering research and transformative teaching methodologies. Renowned for igniting curiosity and engagement in the classroom through diverse pedagogical approaches. Bilingual communicator adept in fostering leadership and leveraging cutting-edge technology. Recognized as an IBM Cloud Consultant in 2015 and holder of the prestigious IBM Artificial Intelligence Practitioner badge in 2023, with further accolades including the IBM Generative AI Faculty Award. Distinguished Editor of the CSI Journal of Computing, with extensive expertise in cloud computing and blockchain, having conducted over 150 workshops and faculty development programs. Honored with the IBM TGMC Mentor Award in 2013, USERC DST Cloud Mentor distinction, and esteemed titles of Best Teacher and Most Popular Teacher of FET. Innovator behind the development of a groundbreaking Blockchain course featured on the SWAYAM Portal.

SKILLS

- Artificial Intelligence(AI), Generative AI, Machine Learning(ML)
- Cloud Computing: KVM / QEMU / Libvirt /Virtualization, CloudSim, Load Balancing, Energy Efficiency, QoS, Compilers, IBM Bluemix, Microsoft Azure, Python.
- Fog Computing: iFogSim
- Blockchain: Ethereum, Smart Contract, Remix, Truffle.
- Good Communication Skills, Confident, Early and Quick Learner.

WORK HISTORY

Lecturer

DITU, Dehradun, Uttarakhand, INDIA (09/2002 -04/2003)

Was first teacher of college to give 100% results in U. P. Technical University in Compiler. Was actively involved in various committees. Taught 'C' Language to first year students.

Professor and Head Dept. of Computer Science & Engineering / Deputy Examination Controller

Gurukula Kangri University, Haridwar, Uttarakhand, INDIA (04/2003 –Current)

Fostered students' commitment to lifelong learning by connecting course materials to broader themes and current events. Initiated and had MoUs with TCS / IBM / EMC^2. Served on various university committees and acted as chair of various committees like Discipline, UGC grants, Website, Personality Development etc. Pioneer to Conduct the Conference in Engineering as Organizing Secretary. Guided more than 500 UG (B. Tech) students in Projects and about 20 PG students. Have successfully guided one Ph.D. scholar at UTU-Dehradun. Takes care of the Department as HOD also having the responsibility of Deputy Controller of Examinations. In past have contributed as Hostel Warden, Deputy Chief Hostel Warden, Placement Officer, Website Administrator as additional responsibility.

PATENTS

1. Mayank Aggarwal, Krishna Rajput, Aditya Tripathi, Ashutosh Bhat. "System and Method to securely store data across network in distributed database to rehabilitate river". Published in Official Journal of Patent Office. Issue No 23/2020. Date 05/06/2020. Application No: 202011017541.

2. Sumit Bansal, Mayank Aggarwal, Himanshu Agarwal. "A cloud fog based architecture for smart healthcare system for industry and society purpose." Granted by Australian Government (Innovation Patent). Patent No: 2021107417. Dated 25, August, 2021.

3. Mayank Aggarwal et al. "System and Method for reporting information related to drug trafficking anonymously". Date 21/5/22. Application No : 202211029346.

4. P.K.Bharti, Pramod Kumar, Mayank Aggarwal et al "Method for leveraging of IoT and Artificial Intelligence for enhanced data security" . Date 20/01/2023. Application No: 202311001305.

5. P.K.Bharti, Pramod Kumar, Mayank Aggarwal et al "Artificial Intelligence and Internet of Things based system for enhanced fog management in smart cars" . Date 20/01/2023. Application No: 202311001292.

6. Shashi Bhushan, P.K.Bharti, Pramod Kumar, Mayank Aggarwal et al "Home security revolutionizing methods using integration of IoT and Artificial Intelligence" . Date 20/01/2023. Application No: 202311001302.

7. Shashi Bhushan, P.K.Bharti, Pramod Kumar, Mayank Aggarwal et al "Method for enhancing bank security with IOT and Artificial Intelligence" . Date 20/01/2023. Application No: 202311001303

8. Pramod Kumar, Mayank Aggarwal et al "Method for enhancing shopping mall security with IOT and Artificial Intelligence" . Date 20/01/2023. Application No: 202311001304

PROJECT

1. "Development of Blockchain Platform(NGBP) for awareness, verification, validation, record keeping and rewarding for cleaning of Holy river Ganga" sanctioned by UCOST in March, 2023.

MOOCS COURSE DEVELOPED

1. A course on Blockchain at SWAYAM portal.

RECENT PUBLICATIONS

*Paper titled "My Easy Healthcare: An efficient and secure three tier Blockchain-based health care system", March,2023, Security and Privacy, Wiley, March,2023, Online ISSN 2475-6725. (WoS)

*Paper titled "An Extensive Blockchain Based Applications Survey: Tools, Frameworks, Opportunities, Challenges and Solutions", *IEEE Access*, Nov, 2022.

*Paper titled "A systematic review of Task scheduling approaches in fog computing", Transac. Emerging Technologies. May, 2022, ISSN 2161-3915.(SCIE)

*Paper titled "Optimization and Prediction of Karanja Oil transesterification with domestic microwave by RSM and ANN", International Journal of Ambient Energy, Dec 2020,(Online First),Online ISSN 2162-8246.(Scopus/ESCI)

*Paper titled "Optimal Elliptic Effective Approach for Secure Data Storage in Clouds", International Journal of Knowledge and Systems Science, Nov 2020, Vol 11 No 4, ISSN 1947-8208, pp 65-81.(ESCI/Scopus Indexed)

* Paper titled "Effective Cryptographic Renewal Method with Rivest-Shamir-Adleman, Modified Artificial Bee Colony Optimization to Achieve Secure Cloud Storage and Computation in Cloud Computing ", Journal of Computational and Theoretical Nanoscience, June 2020, Vol 17 No 6, ISSN 1546 1955, pp 2702-2708(Scopus Indexed)

*Paper titled, "Machine Learning based model to combat Covid-19", Fuzzy Rule based system to predict Covid-19 a deadly virus", International Journal of Information Technology and Electrical Engineering, Aug 2020, Vol 9 Issue 4, ISSN 2306-708X, pp 33-40(UGC Indexed).

*Paper titled, "Fuzzy Rule based system to predict Covid-19 a deadly virus", International Journal of Management and Humanities, April 2020, Vol 4 Issue 8, ISSN 2394-0913, pp 78-82(UGC Indexed).

*Paper titled, "A Technological Review on Scheduling Algorithm to Improve Performance of Cloud Computing Environment", International Journal of Technology and Exploring Engineering, April 2019, Vol 8 Issue 6C,pp 166-72. ISSN 2278-3075(Scopus Indexed)

*Paper titled, "AN ENHANCED SCHEDULING APPROACH WITH CLOUDLET MIGRATIONS FOR RESOURCE INTENSIVE APPLICATIONS", Journal of Engineering Science & Technology, Aug 2018, Vol 13 No8, pp 2299-2317. ISSN 1823-4690(Scopus / ESCI Indexed)

*Paper titled, "Optimized Cost Model with Optimal Disk Usage for Cloud", Big Data Analytics-Advances in Intelligent Systems and Computing (Springer, Singapore), 2018, Vol 654, pp 481-485, ISSN 2194-5357(Scopus Indexed)

*Paper titled, "Energy Efficient DVFS with VM Migration", European Journal of Advances in Engineering & Technology, Feb 2018, Vol 5(1), pp 61-68, ISSN: 2394-658X. UGC-47799

*Paper titled, "A Comparative Study on Scheduling Algorithms in Cloud Computing", International Journal of Advanced Research in Computer Engineering & Technology, January 2018, Vol 7(1), pp 19-24, ISSN:2278-1323, UGC-47442.

*Paper titled "File Specific Deduplication for Cloud Storages", International Journal of Applied Research on Information Technology and Computing. Vol 8(3), Dec,2017, pp 293-302. ISSN: 0975-8089.UGC-2578

*Paper titled "Performance Evaluation of E-Learning Sites", Int. J. of Computer Eng. And Scientific Research, Vol4 (9), Sept 2017, pp 18-22, 2394-0697.UGC Approved S. No: 43032

*Paper titled "Impact of Cloud Computing in E-Learning: A Study", Int. J. of Recent and Innov. Trends in Comp. & Comm., Vol5 (5) May 2017, pp 912-922.UGC Approved, S. No: 519

*Paper titled "Survey of ndn: future internet", Int. J. of Inf. Tech., Springer, Online First, May 2017, ISSN (Online): 2511-2104.DOI: 10.1007/s41870-017-0014-y. UGC Approved, S. No-49273

Paper titled "An Effective Security Mechanism for on Demand File Storage in Cloud Computing", ANWESH: International Journal of Management and Information Technology, Vol 2(1), March 2017.UGC Approved S. No-47129.

*Paper titled "Smart City Based on NDNoT: The Future of IoT, Published in Indian Journal of Science & Technology, Vol 9(36), Sept. 2016, pp 142-147, ISSN (Print): 0974-6846. Scopus Indexed. DOI: 10.17485/ijst/2016/v9i36/89557.

*Paper titled "Impact of Cloud based services on Mental Health", Published in IJECS, Vol 4(8), Aug 2015, pp 13653-13663, ISSN 2319-7242.

*Paper titled "Virtualization: Technology Helping Environment", Published in IJERC, Vol 1, June 2015, pp 58-62, ISSN 0975-6272.

*Paper titled "A Comparative Analysis of Scheduling Algorithms affecting QoS in Cloud Environment" Published in IJCSN, Vol 4(1), Feb 2015, pp 142-147, ISSN 2277-5420.

*Paper titled "An application Deployment to Open Shift Cloud Using existing Git Repository from Local Client" Published in IJECS, Vol 4(1), Jan,2015, pp 10191-10194, ISSN 2319-7242

*Paper titled "Doctor App: A Life Saving Mobile Application" Published in IJCSIT, Vol 5(5), 2014, pp 6290-6295, ISSN 0975-9646. (SciVerse Scopus Indexed)

*Paper Titled "Research Issues in Cloud Computing" published in IJAER, (Scopus Indexed), Vol 9(21), 2014, pp 9479-9488.ISSN:0973-4562. UGC Approved, S. No-64529

*Paper Titled "Virtualization: A concept implementation for Cloud" published in IJETR.Vol 2, Issue 3, March, 2014, pp 52-55. ISSN: 2321-0869

*Paper Titled "Agro App: An application for healthy living" presented at International Conference "- "ISCON-14" held at GLA, Mathura (1-2, March, 2014). Published in IEEE

*Paper titled " Introduction of Cloud Computing and Survey of Simulation Software for Cloud" published in International Journal Research Journal of Science & IT Management, Vol 2, No. 12, Oct, 13, pp. 15-23. ISSN: 2251-1563.

*Paper titled "Hierarchal Fault Tolerant Secured Mobile Agent Model", presented in 27th Indian Engineering Congress, Delhi, 13-16 Dec 2012.

*Paper titled "Hierarchical Model to Prevent DoS Attack in Mobile Agent", presented in International Conference ICRTITCS-2012, Mumbai, 16-17 Dec, 2012.Proceedings published in IJCA, pp. 7-10.

*Paper titled "Hierarchal Secured Fault Tolerant Approach for Mobile Agent: Using Petrinets" published in Journal of Information Systems and Communication (Bio Info Publications) Vol. 3, Issue 1, 2012 pp. 170-173. ISSN: 0976-8742.

*Paper titled "Role of mobile agent in Digital Education" presented in World Congress for Man and Nature held at GKV, from 11-13, Nov 2011.

*Paper titled "Hierarchal Object Oriented Fault Tolerant Secured and Atomic Mobile Agent Model" published in International Journal of Computer Science Issues (IJCSI) Volume 8, Issue 6, November 2011 pp. (241-245).

*Paper titled "Mobile Agent Model for IT in Education System" published in J.N.P.S Vol. 24, No. 1, pp. 69-75(2011), ISSN 097-3799, (Proceedings of IAES -Nov, 2011)

BOOKS

Authored a Book titled "Handbook of AWS(A Practical Guide)", Publisher Bluerose , Feb,22. ISBN-978-9356110212. pp -168.

Authored a Chapter titled "Forecast and Prediction of Covid-19 using machine learning" in Book Titled "Data Science for Covid19" by Elesvier Publications.

Authored a Chapter titled " IBM's Watson Analytics for Health: A Miracle made true" in Book Titled "Cloud Computing Systems and Applications in Health Care" by IGI Global Publications.

Authored a Chapter titled "Advancement and Applications in Fog Computing" in Book Titled "Security Design for the Cloud IoT and Social Networking" by Wiley Publications.

Authored a Chapter titled "Smart Contract Deployment in Ethereum: Learning Made Easy" in Book Titled "Transforming Cybersecurity Solutions Using Blockchain" by Springer.

Thesis Supervised

- Guided more than 20 students in PG for their PG Thesis.
- One Scholar Awarded Ph.D. on topic titled "An Effective Cryptographic Algorithm for Renewal and Signing to Achieve Secure Cloud Storage and Computation" from Uttarakhand Technical University, Dehradun, UK, India.(12/3/2019)

INVITED TALKS (Most of the talks are conducted with Hands On Workshop)

1. Invited talk on "Journey of Technology" at Uttarakhand Science Congress conducted by UCOST,Dehradun at UoU,Haldwani 7-9,Feb,2024.
2. Invited talk on "Role of Artificial Intelligence in Agriculture-Exploring IBM Tools" in National Seminar by Punjabi University, Patiala on 21.11.23.
3. Invited talk on "Artificial Intelligence and Machine Learning" in Skills Enhancement course conducted by Punjab University, Chandigarh on 9.11.23.
4. Invited talk on "Artificial Intelligence- Generative AI" in UGC Sponsored refresher course by Kurukshetra University, Kurukshetra on 4.11.23.
5. Invited talk on "Innovations in Technology" in UGC Sponsored refresher course by Kurukshetra University, Kurukshetra on 3.11.23.
6. Invited talk on "Innovations in Technology" in International Conference conducted by Glocal University, Saharanpur on 1.11.23.
7. Invited talk on "Artificial Intelligence and Generative AI" in workshop conducted by COER, Roorkee on 18.10.23.
8. Invited talk on "Blockchain Technology" in workshop conducted by DBU, Dehradun on 14.9.23.
9. Invited talk on "Blockchain Technology" in workshop conducted by COER, Roorkee on 12.9.23.
10. Invited talk on "Smart Contracts and its application towards daap" in one week STTP conducted by UTU,Gujrat and CITK,Assam on 5/7/23.
11. Invited talk on "Blockchain structure and its Emerging Applications" in one week STTP conducted by UTU,Gujrat and CITK,Assam on 4/7/23.
12. Invited talk on "History of Blockchain and its evolution" in one week STTP conducted by UTU,Gujrat and CITK,Assam on 4/7/23.
13. Invited talk on "Exploring Blockchain" in FDP conducted by Sharda University,Noida on 29/6/23.

14. Invited talk on "Research Methodology" in Workshop conducted by UETR, Roorkee sponsored by USERC on 28/2/23.
15. Invited talk on "Security Using Blockchain" in FDP on "Cyber Security" conducted by COER, Roorkee sponsored by USERC on 8/2/23.
16. Invited Talk on "Blockchain Smart Contracts" in Workshop conducted by IIIT Kota, on 28/11/22 and 29/11/22.
17. Invited Talk on "Cryptocurrency a new era in virtual labor market and legal issues" in FDP conducted by GNDU, Amritsar on 13/7/22.
18. Invited Talk on "Blockchain and Applications" in FDP conducted by RECM, Nagpur on 14/6/22.
19. Invited Talk on "Decentralized Application Development - Blockchain" in Workshop conducted by DEPSTAR-CHARUSAT, Gujrat on 2/3/22.
20. Invited Talk on "Advancements in Technologies" in Seminar conducted by COER, Roorkee sponsored by USERC on 06/02/2022.
21. Invited Talk on "Securing Applications by Blockchain" in FDP conducted by M.J.P. Rohilkhand University, Bareilly under AICTE-ATAL Program on 15/11/2021.
22. Invited Talk on "Ethereum and Smart Contracts" in FDP conducted by Poornima University, Jaipur under AICTE-ATAL Program on 24/09/2021.
23. Invited Talk on "Blockchain Introduction and History" in FDP conducted by Poornima University, Jaipur under AICTE-ATAL Program on 21/09/2021.
24. Invited Talk on "Smart Technologies" in FDP conducted by FET,GKV, Haridwar on 20/9/21.
25. Invited Talk on "Cyber Security" in Refresher Course conducted by UGC HRDC, GNDU Amritsar on 13/9/21.
26. Invited Talk on "Basics of Blockchain" and "Consensus Mechanism" in FDP conducted by MNIT, Jaipur, under AICTE/ATAL Program on 6/9/2021.
27. Invited Talk on "Blockchain and Machine Learning" in FDP conducted by Uttarakhand Open University, under AICTE/ATAL Program on 17/8/2021.
28. Invited Talk on "Hands-on Building Smart Contract using Remix" in FDP conducted by AURO University, Surat on 6/7/2021.
29. Invited Talk on "Blockchain Background" in FDP conducted by AURO University, Surat on 5/7/2021.
30. Invited Talk on "Blockchain Introduction and History" in FDP conducted by AURO University, Surat on 5/7/2021.
31. Invited Talk on "Securing Applications by Blockchain" in FDP conducted by Govt. Engineering College, Bikaner under AICTE/ATAL Program on 23/06/2021
32. Invited Talk on "Academic Leadership and Virtual Spaces" in FDP conducted by FET, GKV under AICTE/ATAL Program on 19/05/2021
33. Invited Talk on "Academic Leadership and Virtual Spaces" in FDP conducted by FET, GKV under AICTE/ATAL Program on 19/05/2021.
34. Invited Talk on "Blockchain Technology and applications" in FDP conducted by AMET University, Chennai under AICTE on 19/12/2020.
35. Invited Talk on "Hands-on with Blockchain using remix" in FDP conducted by FET, GKV, Haridwar under AICTE ATAL on 16/12/2020.
36. Invited Talk on "Introduction to Blockchain" in FDP conducted by FET, GKV, Haridwar under AICTE ATAL on 14/12/2020.
37. Invited Talk on "Hands-on with Blockchain using remix" in FDP conducted by JNTU, Ananthapuram, A.P under AICTE on 11/12/2020.

38. Invited Talk on "Challenges and Solutions Solution Impact of ICT" in UGC/HRDC Refresher Course conducted by BAMU, Aurangabad on 20/10/2020.
39. Invited Talk on "Blockchain Technology and applications" in FDP conducted by SRMS, Bareilly on 16/10/2020.
40. Invited Talk on "Blockchain and its Applications" in FDP conducted by Poornima University, Jaipur under RTU/TEUQIP Program on 18/09/2020.
41. Invited Talk on "Hands-on Remix" in FDP conducted by NIT-Raipur under AICTE/ATAL Program on 17/09/2020.
42. Invited Talk on "Academic Leadership and Virtual Spaces" in FDP conducted by FET, GKV under AICTE/ATAL Program on 16/09/2020.
43. Invited Talk on "Blockchain Introduction Background and History" in FDP conducted by RTU-Jaipur under TEQIP on 15/09/2020.
44. Invited Talk on "Deploying Smart Contract using Remix" in FDP (Online) conducted by GTU, Ahemdabad on 3/9/2020 and 4/9/2020.
45. Invited Talk on "Blockchain Technical Perspective" in One month Orientation Course (Online) conducted by CSI/IEEE/AICTE/BVICAM, Delhi on 20/8/2020.
46. Invited Talk on "Understanding Blockchain Made easy" in Webinar conducted by GJU, Hissar on 13/8/2020.
47. Invited Talk on "Deploying Smart Contract using Remix" in FDP (Online) conducted by GBPEC, Pauri on 20/7/2020 and 21/7/2020.
48. Invited Talk on "Blockchain and Industry4.0" in FDP (Online) conducted by CSI/IEEE/AICTE/BVICAM, Delhi on 8/7/2020.
49. Invited Talk on "Deploying Smart Contract using Remix" in STC (Online) conducted by AICTE/IBM/GKV on 29/6/2020 and 30/6/2020.
50. Invited Talk on "Understanding Blockchain Made easy" in Webinar conducted by Vivek College on 6/6/2020.
51. Invited Talk on "How to use exam.net to give Online Examination" in Webinar conducted by GKV, Haridwar on 25/5/2020.
52. Invited Talk on "Exploring remix to implement Smart Contracts" in Webinar conducted by BVICAM, Delhi on 29/5/2020.
53. Invited Talk on "Impact of Technology on Youth and Society" during Orientation Program for NSS officers" being conducted by Empaneled Training Institute under Ministry of Youth Affairs and Sports, Government of India on 22 ,Feb,2019.
54. Invited Talk and Hands On Workshop under TEQIP-UTU at COER, Roorkee on "Blockchain and IPR", 27,Nov,2019
55. Invited Talk and Hands on Workshop at Manav Rachna Uiversity, Faridabad on "Blockchain Technology/Ethereum", 5, Oct, 2019.
56. Invited Talk and Hands on Workshop at Govt. Engineering College, Bikaner on "Blockchain Technology/Ethereum", 3-4, Oct, 2019.
57. Invited Talk and Hands on Workshop at SCET, Surat, Gujrat on "Blockchain Technology/Ethereum", 31, August, 2019.
58. Workshop in FDP at BVM, Vidyanagar, Gujrat on "Blockchain Technology/Ethereum", 10, June,2019
59. Invited Talk in IEEE International Conference at KEC, Gaziabad on "Block Chain Technology", 18, April, 2019.
60. Invited Talk/Workshop at Chitkara University, Punjab on "Block Chain", 16, March, 2019
61. Invited Talk/Workshop in FDP at FGC, Bareilly on "Cloud Computing and Cloud Sim", 5, January, 2019.
62. Invited Talk in FDP at UTU, Dehradun on "Research and Innovations", 13, July, 2018.
63. Invited Talk in IEEE National Workshop at WIT, Dehradun on "Block chain in Bigdata", 21, April, 2018.
64. Invited Talk in Workshop at MKIT, Dehradun on "Block chain", 21, April, 2018.

65. Invited Talk in Workshop at DBIT, Dehradun on "Block chain", 31, March, 208.
66. Invited Talk in Workshop at COER, Roorkee on "Block chain", 15, March, 2018.
67. Invited Talk in National Workshop at M.S. University, Baroda, Gujrat on "Block chain in Bigdata", 21, Feb, 2018.
68. Resource Person in FDP on Research Methodology at Uttaranchal University, Dehradun on 6 Dec,2017
69. Resource Person UGC, HRDC Refresher course at MDSU, Ajmer 10-11, Oct, 2017.
70. Invited Talk in UGC Sponsored FDP at Guru Nanak Khalsa College, Yamunanagar on 16, Sept, 2017.
71. Invited Talk on Cloud Computing and Bluemix in a Workshop at HIT, Jolly Grant, Dehradun on 6 May,
72. 2017.
73. Resource Person in Workshop on Cloud Computing and VMware at WIT, Dehradun on 6 April, 2017
74. Resource Person in FDP on Cloud Computing and Cloud Sim at LPU, Jalandhar on 18, Feb 2017.
75. Resource Person in National Workshop at Govt. College Kotdwar in collaboration with U-SAC, Dehradun on 30 Nov, 2016.
76. Research Methodology lectures for Ph.D. Candidates of UTU, Dehradun on 27-28, Dec, 2016.
77. Invited Talk in National Workshop by U-SAC, Dehradun on 30 Nov, 2016 at Kotdwar.
78. Role of Computers in Research for Ph.D. Candidates of UTU, Dehradun on 28 June, 2016.
79. Talk on Cloud Computing and Bluemix in a Workshop at COER, Roorkee on 28 April, 2016.
80. Delivered five Sessions with Hands on Experience on Cloud Computing and Cloud Sim in a Workshop at Punjabi University, Patiala on 11-12 April, 2016
81. Talk on Cloud Computing and IoT during Workshop/FDP "Microwave and Wireless Communication" at M.J.P. Rohilkhand University, Bareilly on 1 April, 2016.
82. Workshop on Cloud Computing and Cloud Sim at DIT, Dehradun on 8 Feb, 2016.
83. Workshop on Cloud Computing and Cloud Sim at CEC, Chandigarh on 28 Jan, 2016.
84. Workshop on Cloud Computing and Bluemix at MEC, Bikaner on 9 Jan, 2016.
85. IAM tools for Cloud Security in CSI Annual Golden Jubilee 2-5, Dec, 2015 at New Delhi.
86. Workshop on Cloud Computing and Bluemix at SGRR, Dehradun on 7, Nov, 2015.
87. Workshop on Cloud Computing and Bluemix at RIT, Roorkee on 4, Nov, 2015.
88. Expert Lecture on Cloud Computing and Research Issues in FDP at IFTM, Moradabad on 2, Nov, 2015.
89. Delivered three hour talks on Programming in Cloud Sim & BlueMix at Three Day Workshop in Kurukshetra University, Kurukshetra on 22 September, 2015.
90. Delivered two talks on Cloud Computing &BlueMix at Workshop in IMT, Kashipur on 11 September, 2015
91. Session Chair in International Conference "NGCT" at UPES, Dehradun 5, Sept.,2105

92. Conducted and delivered a session on Cloud Computing & BlueMix at Workshop in DIT, Dehradun on 4 September, 2015
93. Expert Talks (5 Sessions) in National Workshop for
94. Capacity Building / FDP on Cloud Computing at I.P. University, Delhi on 29 and 30, July, 2015.
95. Key Note speaker in International Conference on Advances in Emerging and Futuristic Trends in Engineering & Technology from 8-9 May, 2015 held at MAU, Baddi (H.P).
96. Session Chair in International Conference on Advances in Computing and Communication Engineering (ICACCE -2015) on 1-2 May, 2015 held at Tula Institute, Dehradun.
97. Conducted a One Day Workshop as Resource Person at Chandigarh University on 23, April, 2015 on Cloud Computing and Cloud Sim.
98. Invited talk on "Cloud Computing and Sustainable Development" in National Seminar" Sustainable
99. Development with reference to present Indian Scenario", 14, March, 2015. Conducted by BSI, Roorkee.
100. Session Chair in International Conference "IndiaCom-2015 Computing for Sustainable Global Development".11-13 March, 15. Conducted by BVICAM, New Delhi.

101. Invited talk on "Cloud Computing for Sustainable Global Development" in International Conference "IndiaCom-2015 Computing for Sustainable Global Development". 11-13 March, 15, Conducted by BVICAM, New Delhi.
102. Invited Talk on "Cloud Computing" in International Invited Talk on "Issues and Challenges in Cloud Computing" in National Seminar Advances in Computer Networking and Information Security on 22 Nov., 2104 at SRMS-WCET, Bareilly. Conference on Advances in Computing,
103. Communications & Informatics on 29, Nov, 2104 at COER-Roorkee.
104. Chaired a Session in International Conference "Confluence-2014" at Amity University, Noida. 25-26 Sept, 14.
105. Invited Talk on "Cloud Computing: Concepts" at National Conference at Shobhit University, Gangoh on 12/4/14.
106. Chaired a Session in INDIANCom-14 held at BVIAM, New Delhi on 7March, 2014.
107. Invited talk on "Technical Innovations for Inclusive Development" in National Symposium by ISCA-Haridwar Chapter hosted at GKV, Haridwar (16, Feb,14)
108. Invited talk on "Mobile Applications and Cloud Computing: A new approach for Inclusive Development" in Indian Science Congress, 3-7, Feb, 2014 held at Jammu University, Jammu.
109. Invited Speaker/Co-Chairperson in National Conference "Emerging Trends in Computational Research and Development" at DSVV, Haridwar 7-8 Sept., 2013.
110. Invited Speaker in National Workshop on Green Computing at B.I.T Muzzafarnagar on 2 May, 2013
111. Invited Speaker in National Seminar at B.S.I Roorkee on 14 March, 2013.
112. Invited Speaker in National Conference on "Future Aspects of Artificial Intelligence in Industrial Automation" 19-20 May, 2012 held at Graphic Era University, Dehradun.
113. Guest Speaker in National Seminar on" Body Implanted Microsystem Technology", 9 April, 2011.Organized by Uttaranchal College of Technology, Dehradun.
114. Chaired / Key Note Speaker at a State Level Seminar on "I.T and Its Applications", 14 March 2011, conducted at B.S.I Group of Colleges, Roorkee.
115. Delivered two expert lectures in Refresher Course in I.T Applications at S.S.J Campus, Almorah, Kumaon University on 3-Dec-2011 and 4-Dec-2011.
116. Key Note Speaker in National Seminar on "Industrial Automation and Soft Sensors"-4-5 September, 2010. Organized by Graphic Era University, Dehradun.
117. Delivered expert lectures on Design and Analysis of Algorithm for M. Tech I Year students of U.K. Technical University at College of Engineering, Roorkee -June 2010.
118. Delivered expert lectures on Object Oriented Software Engineering for M. Tech II Year students of U.K. Technical University at DIT, Dehradun –July 2010.
119. Key Note Speaker at National seminar on Advance Computing & Communications-Aug 25& 26, 2007. Invertis Institute of Eng. & Technology, Bareilly.

EDUCATION

Certification:

IBM(Practitioner Badge)	*Artificial Intelligence*	***2023***

AI/ML/Generative AI/Watson/Watsonx

Buffalo University, New York(Coursera)	Blockchain	**2020**

Blockchain Specialization (4 Courses)

Dudley College, UK – Sponsored by AICTE	CMI-Level 5	**2019**

CMI Level 5 , certification under AICTE-UKEIRI Leadership Development Program

| | Cloud Computing | **2017** |

Summer Research Fellow:

Institute of Technology (IIT) -Delhi

Worked under the Guidance of Dr. Pragya Jain, Dr. K. Gopal Build a prototype of IIT-Delhi cloud "Baadal" Worked on Libvirt/QEMU/KVM, VMware, and Dedupe.

Ph.D.: Computer Science(Mobile Agents)   *Gurukul Kangri University* -Haridwar   **2012**

Worked under the guidance of Dr. Nipur. Research topic was "Fault Tolerance and Security Issues in Mobile Agents". Made a new secured Fault Tolerant model and simulated it in Petrinets.

M.Tech: Computer Science   **2006**

J.R.N. Rajasthan University –Udaipur
Scored 68%.

B. Tech: Computer Science   **2002**

 Dr.B.R. Ambedkar University -Agra

Recipient of Scholarship for Seven semesters for being university topper in Computer Sc. & Engineering Gold Medalist, got B.Tech (Hons.) with 84 %

MEMBERSHIPS

- Member Institution of Engineers (MIE) ·
- Life member of Computer Society of India.
- Hon. Secretary, Computer Society of India, Haridwar Chapter. (2014-2016)
- Vice Chairman, Computer Society of India, Haridwar Chapter (2016-2017)
- Chairman, Computer Society of India, Haridwar Chapter (July 2017- June 2018)
- Life Member Indian Science Congress
- Member Board of Studies D.I.T University, Dehradun; Uttarakhand Sanskrit Academy, Haridwar; Jiwaji University, Gwalior; Uttarakhand Technical University, Dehradun.
- Member RDC Uttarakhand Technical University, Dehradun; G.B.P.E.C, Pauri, Garhwal.
- Editorial Board Member of "International Journal of Current Engineering and Scientific Research", UGC Approved Journal.
- Editor CSI Journal of Computing.

ADDITIONAL INFORMATION

- IBM Practiotioner badge holder for AI
- One of the few academicians in India Selected by IBM to train students on IBM Watsonx-Generative AI Tool. Launched in 2023.
- IBM Cloud Consultnat-2015
- Awarded by IBM - IBM TGMC Mentor Award-2013.
- IBM Cloud Blue Mix Certified.
- Microsoft Azure Certification by Manipal University.
- Selected as Mentor in USERC, Uttarakhand. (DST Body of Uttarakhand)
- Best Teacher Award in B.Tech.
- Represented three states Uttarakhand/West U.P / Himachal Pradesh as Science Communicator in Indian Science Congress, Jammu, 3-7, Feb, 2014.
- Pioneer to implement SMS based information collection system in Lok Sabha Election of Hardiwar in 2012.
- Launched "NamoGanga" a mobile app to Keep Ganga Clean on the guidelines of Hon'ble PM Mission Namami Gangey.