

## Dr. Mayank Aggarwal

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Q.N0-07, Professor's Colony, Gurukul  
Kangri University, Haridwar.

 :+91-9719004462

 mayank@gkv.ac.in  
[www.mayankagr.in](http://www.mayankagr.in)

### PROFESSIONAL SUMMARY

Computer Engineering Professor with over 15 years of experience in research and teaching. Thoroughly understands the learning process and uses various methods in teaching styles, to create the interest in the class. Awarded Best Teacher every year by students. A bilingual educator offering skill in communication, leadership and technology. Have passion for Research and Teaching, being recognized and awarded by IBM as IBM Cloud Consultant-2015. Have wide experience in the field of cloud computing and worked on various platforms of cloud and delivered more than 50 Talks in last two years.

### SKILLS

- Cloud Computing, KVM / QEMU / Libvirt /Virtualization, Load Balancing, Energy Efficiency, QoS, Compilers, IBM Bluemix, Microsoft Azure, Python.
- Blockchain, Hyper Ledger
- 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 Compiler at U. P. Technical University. Was actively involved in various committees. Taught 'C' Language to first year students.

#### Associate Professor

**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<sup>2</sup>. 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 100 UG(B.Tech) students in Projects and about 20 PG students. Have five research scholars enrolled under Ph.D at UTU-Dehradun. Takes care of the Department as In-charge/ HOD. Also taken the responsibility of Hostel Warden, Placement Officer in past. Managing and developed the website of university [www.gkv.ac.in](http://www.gkv.ac.in).

## RECENT PUBLICATIONS

- \* 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
- \*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
- \* 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.
- \*Paper titled "Impact of Cloud Computing in E-Learning: A Study", Int. J. of Recent and Inov. Trends in Comp. & Comm., June 2017.
- \*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
- \*Paper titled "Smart City Based on NDNofT: The Future of IoT, Vol 9(36), Sept. 2016, pp 142-147, ISSN (Print): 0974-6846. Scopus Indexed. DOI: 10.17485/ijst/2016/v9i36/89557
- \*Paper titled "Virtualization: Technology Helping Environment", Published in IJERC, Vol 1, June 2015, pp 58-62, ISSN 0975-6272.
- \*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,
- \*Paper titled "Virtualization: Technology Helping Environment", Published in IJERC, Vol 1, June 2015, pp 58-62, ISSN 0975-6272.
- \*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 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.

## INVITED TALKS

Invited Talk in FDP at UTU, Dehradun on "Research and Innovation", 15, July, 2018.

Invited Talk in IEEE National Workshop at WIT, Dehradun on "Block chain in Bigdata", 21, April 2018.

Invited Talk in Workshop at MKIT, Dehradun on "Block chain", 21, April 2018.

Invited Talk in Workshop at DBIT, Dehradun on "Block chain", 31, March 2018.

Invited Talk in Workshop at COER, Roorkee on "Block chain", 15, March, 2018.

Invited Talk in National Workshop at M.S. University, Baroda, Gujrat on "Block chain in Bigdata", 21, Feb 2018.

Invited Talk in Refresher Course HRDC, MDS University, Ajmer on Research Tools and Latest Technologies, 10-11, Oct 2017.

UGC Sponsored Workshop "Hybrid Cloud Computing and IoT" at Guru Nanak Khalsa College, Yamunanagar, 16 Sept 2017.

Research Methodology lectures for Ph.D Candidates of UTU, Dehradun on 6-7, July 2017.

Invited Talk on Cloud Computing and Bluemix in a Workshop at HIT, Jolly Grant, Dehradun on 6 May, 2017.

Resource Person in Workshop on Cloud Computing and VMware at WIT, Dehradun on 6 April, 2017

Resource Person in FDP on Cloud Computing and Cloud Sim at LPU, Jalandhar on 18, Feb 2017.

Resource Person in National Workshop at Govt. College Kotdwar in collaboration with U-SAC, Dehradun on 30 Nov 2016.

Research Methodology lectures for Ph.D Candidates of UTU, Dehradun on 27-28, Dec 2016.

Invited Talk in National Workshop by U-SAC, Dehradun on 30 Nov 2016 at Kotdwar.

Role of Computers in Research for Ph.D Candidates of UTU, Dehradun on 28 June 2016.

Talk on Cloud Computing and Bluemix in a Workshop at COER, Roorkee on 28 April 2016.

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

Talk on Cloud Computing and IoT during Workshop/FDP "Microwave and Wireless Communication" at M.J.P. Rohilkhand University, Bareilly on 1 April 2016.

Workshop on Cloud Computing and Cloud Sim at DIT, Dehradun on 8 Feb 2016.

Workshop on Cloud Computing and Cloud Sim at CEC, Chandigarh on 28 Jan 2016.

Workshop on Cloud Computing and Bluemix at MEC, Bikaner on 9 Jan 2016.

IAM tools for Cloud Security in CSI Annual Golden Jubilee 2-5, Dec 2015 at New

Delhi. Workshop on Cloud Computing and Bluemix at SGRR, Dehradun on 7, Nov 2015.

Workshop on Cloud Computing and Bluemix at RIT, Roorkee on 4, Nov 2015.

Expert Lecture on Cloud Computing and Research Issues in FDP at IFTM, Moradabad on 2, Nov 2015.

Delivered three hour talks on Programming in Cloud Sim & BlueMix at Three Day Workshop in Kurukshetra University, Kurukshetra on 22 September 2015.

Delivered two talks on Cloud Computing & BlueMix at Workshop in IMT, Kashipur on 11 September, 2015

Session Chair in International Conference "NGCT" at UPES, Dehradun 5, Sept. 2015

Conducted and delivered a session on Cloud Computing & BlueMix at Workshop in DIT, Dehradun on 4 September, 2015

Expert Talks (5 Sessions) in National Workshop for

Capacity Building / FDP on Cloud Computing at I.P. University, Delhi on 29 and 30, July 2015.

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).

Session Chair in International Conference on Advances in Computing and Communication Engineering (ICACCE -2015) on 1-2 May 2015 held at Tula Institute, Dehradun.

Conducted a One Day Workshop as Resource Person at Chandigarh University on 23, April 2015 on Cloud Computing and Cloud Sim.

Invited talk on "Cloud Computing and Sustainable Development" in National Seminar "Sustainable Development with reference to present Indian Scenario", 14, March 2015. Conducted by BSI, Roorkee.

Session Chair in International Conference "IndiaCom-2015 Computing for Sustainable Global Development". 11-13 March, 15. Conducted by BVICAM, New Delhi.

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.

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,

Communications & Informatics on 29, Nov 2014 at COER-Roorkee.

Chaired a Session in International Conference "Confluence-2014" at Amity University, Noida. 25-26 Sept 14.

Invited Talk on "Cloud Computing: Concepts" at National Conference at Shobhit University, Gangoh on 12/4/14.

Chaired a Session in INDIANCom-14 held at BVIAM, New Delhi on 7 March, 2014.

Invited talk on "Technical Innovations for Inclusive Development" in National Symposium by ISCA-Haridwar Chapter hosted at GKV, Haridwar (16, Feb 14)

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.

Invited Speaker/Co-Chairperson in National Conference "Emerging Trends in Computational Research and Development" at DSVV, Haridwar 7-8 Sept. 2013.

Invited Speaker in National Workshop on Green Computing at B.I.T Muzaffarnagar on 2 May, 2013

Invited Speaker in National Seminar at B.S.I Roorkee on 14 March 2013.

Invited Speaker in National Conference on "Future Aspects of Artificial Intelligence in Industrial Automation" 19-20 May 2012 held at Graphic Era University, Dehradun.

Guest Speaker in National Seminar on "Body Implanted Microsystem Technology", 9 April, 2011. Organized by Uttaranchal College of Technology, Dehradun.

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.

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.

Key Note Speaker in National Seminar on "Industrial Automation and Soft Sensors"-4-5 September 2010. Organized by Graphic Era University, Dehradun.

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.

Delivered expert lectures on Object Oriented Software Engineering for M.Tech II Year students of U.K.Technical University at DIT, Dehradun -July 2010.

Key Note Speaker at National seminar on Advance Computing & Communications- Aug 25& 26, 2007. Invertis Institute of Eng. & Technology, Bareilly.

## EDUCATION

**Summer Research Fellow:** Cloud Computing **2017**

### *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.

**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 85 %

## 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 (2017-2018)
- 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.

## ADDITIONAL INFORMATION

- IBM Cloud Consulnat-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 every year by Online Voting of students
- Represented three states Uttarakhand/West U.P / Himachal Pradesh as Science Communicator in Indian Science Congress, Jammu, 3-7, Feb, 2014.
- In 2009 was the first and key person to implement SMS based information collection system in Lok Sabha Election of Hardiwar.
- Launched "NamoGanga" a mobile app to Keep Ganga Clean on the guidelines of Hon'ble PM Mission Namami Gangey.