

Sushil Kumar

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Academic Qualification(s):

- **M.Tech.** (Computer Science and Engineering) from Graphic Era University, Dehradun with **First division**, in June 2012.
- **MCA** from IGNOU with **First division**, in December 2007.
- **BCA** from HNB Garhwal University, Srinagar Uttarakhand with **First division**, in 2004.

Achievement(s):

- **UGC - NET** qualified in **Computer Science and Application** conducted by UGC in June 2012.
- **GATE** qualified in **Computer Science and and Information Technology** in 2013.

Organizational Experience:

- Serving as an **Assistant Professor** Computer Science in Faculty of Modern Studies of Uttarakhand Sanskrit University, Haridwar **from December 13, 2016**.
- Served as an **Assistant Professor** in the Department of Computer Applications of Graphic Era University, Dehradun **from July 1, 2013 to December 10, 2016**.
- Served as a **Lecturer** in the Department of Computer Applications of Graphic Era University, Dehradun **from August 12, 2008 to June 30, 2013**.

Research Paper Published in Journals:

1. Deepak Singh Rana , Shiv Ashish Dhondiyal , **Sushil Kumar Chamoli**, “Software Defined Networking (SDN) Challenges, issues and Solution”, International Journal of Computer Sciences and Engineering (IJCSSE), Vol.-7, Issue-1, E-ISSN: 2347-2693, Page No. 884-889, January-2019.
2. **Sushil Kumar Chamoli**, “Nikhilam Vedic Mathematics Sutra for Computer Arithmetic Operation”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, ISSN: 2347-9892, UGC-5696, Page No. 193-197, Dec-2019.
3. **Sushil Kumar Chamoli**, “Advantages and Challenges of Digital Education for Sanskrit”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, ISSN: 2347-9892, UGC-5696, Page No. 188-193, June-2019.
4. **Sushil Kumar Chamoli**, “Study of E-Learning Resources and Tools for Sanskrit Language”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, ISSN: 2347-9892, UGC-5696, Page No. 411-417, Dec-2018.
5. **Sushil Kumar Chamoli**, “Advantage of E-learning and E-learning Tools in Education”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, ISSN: 2347-9892, UGC-5696, Page No. 325-331, June-2018.
6. **Sushil Kumar Chamoli**, “Uses of Cloud Computing in Educational Institutions”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, Vol. 2, ISSN: 2347-9892, Page No. 285-291, Page No. 285-291, June-2017.
7. **Sushil Kumar Chamoli**, “The Panini’s Sanskrit Grammar Approach in Computer Science”, Shodh Pragya, Research Journal of Uttarakhand Sanskrit University, Vol. 1, ISSN: 2347-9892, Page No. 173-181, December-2016.
8. Deepak Singh Rana, Meenakshi Pandey, **Sushil Kumar**, “Computer Based Numerical and Statistical Techniques (CBNST) and its Applications”, CSI-Adhyayan, Issue-3, Page No. 23-36, Sept-2016.
9. **Sushil Kumar**, Deepak Singh Rana, “Various Dynamic Load Balancing Algorithms in Cloud Environment: A Survey”, Paper published in *International Journal of Computer Application (0975-8887)*, Volume 129-No.6, November, 2015.

10. **Sushil Kumar**, Deepak Singh Rana and Sushil Chandra Dimri, “Analysis and Implementation of AODV Routing Protocol against Black Hole Attack in MANET”, Paper published in *International Journal of Computer Application (0975-8887)*, Volume 124-No.1, August 18, 2015.
11. **Sushil Kumar**, Deepak Singh Rana and Sushil Chandra Dimri, “Fault Tolerance and Load Balancing Algorithm in Cloud Computing: A Survey”, Paper published in *International Journal of Advanced Research in Computer and Communication Engineering*, Vol 4, Issue 7, ISSN: 2278-1021, July 2015.
12. **Sushil Kumar Chamoli**, Santosh Kumar, Deepak Singh Rana, “Performance of AODV against Black Hole Attacks in Mobile ad-hoc Networks” Paper published in *International Journal of Computer Technology & Applications*, Vol 3 (4), 1395-1399, ISSN: 2229-6093, 2012.
13. Sushil Chandra Dimri, **Sushil Kumar Chamoli** and Durgesh Pant, “Delay based traffic distribution of heavy traffic on k-paths to achieve the load balancing and to minimize the mean system delay in MANET”, published in *International Journal of Computer Application (0975-8887)*, Volume 63– No.22, February 2013, Impact factor 0.814.
14. Sushil Chandra Dimri, **Sushil Kumar Chamoli** and Anuj Dimri, “A new dynamic programming approach for scan conversion of a circle”, published in *International Journal of Computer Application (0975 – 8887)*, Volume 50– No.17, July 2012, Impact factor 0.814.
15. Deepak Singh Rana, Naveen Garg, **Sushil Kumar Chamoli**, “A Study and Detection of TCP SYN Flood Attacks with IP spoofing and its Mitigations” published in *International Journal of Computer Technology & Applications*, Vol 3 (4), 1476-1480, ISSN: 2229-6093, 2012.
16. Santosh Sharma, Ajay Rawat, **Sushil Kumar Chamoli**, “Anycasting – One-To-One-Of-Many Communication Method in IPV6”, published in *IJCSET, November 2011, Vol 1, Issue 10,655-660 ISSN 2231-071*.

Workshop:

1. Organized One Day National Workshop on “Technology Enabled Education”, Organized by USVV, Haridwar in collaboration with Uttarakhand Science Education and Research Center (USERC), Dehradun at USVV Haridwar on 04-Dec-2017.
2. Participate in One Day Workshop on “Technology Enabled Education”, Organized by USVV, Haridwar in collaboration with Uttarakhand Science Education and Research Center (USERC), Dehradun at USVV Haridwar on 04-Dec-2017.
3. Participate in One Day Workshop on “All India Survey on Higher Education”, at Uttarakhand Technical University, Dehradun on 30-Jan-2017.
4. Convener, Technical Committee for Ten Day National Workshop on “Anumanakhanda of Nyayasiddhanta Muktavali with Dinakari Ramarudri Commentary”, Organized by USVV and Indian Council of Philosophical Research at USVV Haridwar on 22-Feb to 03-Mar-2017.
5. Coordinate one day Workshop on “CISCO VOIP & Android Programming” at Graphic Era University, Dehradun on 05-December-2016.
6. Participated in Workshop on “**Statistical Techniques in Research**”, organized by School of CS & IT, Uttarakhand Open University jointly with IT Cell, Doon University, Dehradun Uttarakhand on 22 December, 2103.
7. Participated in a one day Workshop – “**Hack-O-Mania 1.0 – Ethical Hacking and Cyber Security**” conducted by i3indya Technologies in association with Techkriti 2013, IIT Kanpur at Graphic Era University, Dehradun on 15th April, 2013.
8. Participated in two days’ workshop on “**Network Simulator 2 (ns-2)**” organized by Graphic Era University, Dehradun on February 25-26, 2012.
9. Participated in Regional Workshop on “**Image & signal Processing using MATLAB**”, by CSI (Dehradun) at Graphic Era University, Dehradun on 30 April 2011.
10. Participated in Workshop on **Linux** held at Graphic Era University, Dehradun on 13 March 2010.

Conferences/ Seminar

1. Participated in National Conference on “**Leveraging Technologies for Re-scripting Higher Education**”, Organized by Doon University, Dehradun on 16th November, 2013.
2. Participated in two days’ National Conference on “**Network Security Issues and Resource Optimization – 2012**” Organized by Department of Computer Applications, Graphic Era University, Dehradun on 27-28 October, 2012.
3. Participated in 7th **Uttarakhand State Science & Technology Congress – 2012** as the member of Audio-visual and venue in charge committee on 2012.
4. Attended Seminar on “**Powers of Algorithm – 2010**” Organized by Department of Computer Applications, Graphic Era University, Dehradun on 8 May 2010.

Orientation Programme / Certificate

1. UGC Sponsored **Orientation Programme-31** from UGC HRDC, Guru Jambheshwar University of Science & Technology, Hisar, Haryana in 28-Feb-2019 to 27-Mar-2019.
2. 8 Week Online “Cloud Computing Certification Course” from NPTEL (Funded by the Ministry of HRD, Govt. of India), IIT Kharagpur in Feb-Mar 2018.

Online Webinar

1. Organize five days National Webinar in Digital Education Cell Uttarakhand Sanskrit University, Haridwar from 5th August to 9th August, 2020.
2. Organize one day National Webinar in Digital Education Cell and Placement Cell, Uttarakhand Sanskrit University, Haridwar on 13 June, 2020.
3. Participate in one day online Faculty Development Program on creating “Tech-Savvy Teachers for Future Classrooms Edfly Training ” organized by Edfly on 11th June, 2020.
4. Participated in 5 days National level FDP on “Creating Tech-Savvy Teachers for Future Classrooms” organized by St. Teresa’s Institute of Education, Santacruz, Mumbai, India in collaboration with EdFly from 6th June to 10th June 2020.
5. Organize one day National **वैदिक** Webinar in Uttarakhand Sanskrit University, Haridwar on 05 June, 2020.
6. Participated in Three days International Webinar on “Artificial Intelligence and Machine learning” organized by Jayawant Institute of Management Studies on 3rd June to 5th June, 2020.
7. Attended one day National Webinar on “Shodh Shuddhi – Web based Plagiarism Detection Software URKUND” organized by JNU, New Delhi in associated with INFLIBNET Center & eGalactic on 30 May, 2020.
8. Attended 5 days FDP on “Data Science and AI” organized by Mangalmay Institute of Engineering & Technology, Greater Noida on 25th May to 29th May 2020.
9. Participated in Two days National Webinar on “Online FDTP: Web Application Security” organized by Department of IT Jeppiaar Institute of Technology on 27 May to 28 May, 2020.
10. Participate in one day online “Cyber Security Awareness Training Program” organized by Brillica Services on 25th May 2020
11. Participated in Online Quize based General Studies organized by Department of Library, Govt. PG. College, Maldevta, Raipur, Dehradun on 22 May, 2020.
12. Participate in one day National Webinar on “Open and Distance Learning (ODL): Need of Hour (Post COVID-19)” organized by Bateshwarnath Maharaj Group of Institution, Agra on 17th May 2020.
13. Participated in Online 5 day Programme on “Data Science using Python, ML and Deep Learning” organized by USERC, Dehradun and Brillica Services on 10th April to 14th April, 2020.
14. Participated in Two days National Webinar on “Cyber Security Awareness Program” organized by USERC, Dehradun and Brillica Services on 11th April to 12th April, 2020.
15. Online Certificate of C++ Tutorial Course from SOLOLEARN in 29 November, 2016.
16. Online Certificate of JAVA Tutorial Course from SOLOLEARN in 18 November, 2016.

Teaching Interests (Subjects taught at UG/PG Level):

- Java Programming.
- Compiler Constructions.
- Cloud Computing.
- Operating System - Unix/Linux, Shell Programming.
- Web Technology (HTML, PHP)
- RDBMS (Oracle, MySQL database)
- Programming in 'C' language.
- Object Oriented Programming using C++.
- Data Structures using C & C++.
- Data Communication and Networking.
- Computer Graphics.

Research Interests:

- Cloud Computing.
- Security in Cloud Computing.
- Ad Hoc Network
- Sanskrit Language with Computer Science.

Other Responsibilities (University Level):

- Nodal Officer, NAD Cell in USVV.
- University Coordinator, ShodhGanga for USVV.
- Convener, Digital Education Cell of USVV.
- Convener, Cultural Committee of USVV.
- Member of BOS Committee for Computer Science Subjects in USVV.
- Convener, Social Media Activity in USVV.
- Designed Lab Manual for PGDCA and Computer Certificate course in USVV.
- Project Guide for PGDCA Students.
- Members of NAAC accreditation related work committee of USVV.
- Members of IQAC related work committee of USVV.
- Practical Examiner in different Universities and Institutes.

Personal Details:

Father's Name : Shri. Devendra Prasad Chamoli
Date of Birth : 15 November 1984
Address for Correspondence : C/O Mr. R. P. Chamoli,
H.No. 170/3A Devi Ganga Puram, Near Edify School,
Dakota Mothrowala, Cant Road,
Clement Town Dehradun, Uttarakhand - 248002

Declaration:

I hereby declare that the above mentioned information is true.

Date:

Place:

(Sushil Kumar)