

SHEKHAR KUMAR

Assistant Professor

Department of Computer Science,

M. B. Govt. P. G. College, Haldwani, Nainital

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<https://www.researchgate.net/profile/Shekhar-Kumar-3>

<https://scholar.google.com/citations?hl=en&user=PeQZ-1QAAAAI>

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1. Career Objective

Dedicated and result-oriented academic professional with 10 years of teaching and research experience in Computer Science. Passionate about fostering academic excellence, mentoring students, and contributing to innovative research in wireless sensor network, remote sensing.

2. Academic Qualifications

Degree	University/ Institution	Percentage/CGPA
Ph.D. in [Computer Science]	Kumaun University	Pursuing
M.Tech [Computer Science]	G B Pant Engineering, College, Ghurdauri	80.5
B.Tech in [Computer Science]	Graphic Era University, Dehradun	74.8
Intermediate	G I C Lohaghat	71.2
High School	V V M Lohaghat	73.6

3. Teaching Experience

Position	Institution	Duration	Responsibilities
Assistant Professor	M. B Govt. P. G. College Haldwani	[July 2019 – Present]	Teaching UG/PG courses, supervising research, administrative roles
Assistant Professor	M. B Govt. P. G. College Haldwani	[2016 – 2019]	Curriculum development, mentoring students, conducting examinations

Assistant Professor	Graphic Era Hill University Dehradun	[2015-2016]	Teaching UG/PG courses, mentoring students
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4. Research Interests

Wireless Sensor Network, Design And Analysis Of Algorithms, Theory of Computation, Data Structure, Operating System, Discrete Mathematics , Remote Sensing

5. Publications

Research Papers:

1. **Kumar, S.**, & Chaudhary, K. (2024). Shortest Distance On-demand Stable Election Protocol. *Wireless Personal Communications*, 139(3), 1623-1635.
2. **KUMAR, S.**, & Chaudhary, K. (2022). Shortest Distance On-demand Stable Election Protocol.
3. **Kumar, S.**, Verma, S. K., & Kumar, A. (2015). Enhanced threshold sensitive stable election protocol for heterogeneous wireless sensor network. *wireless personal communications*, 85(4), 2643-2656.
4. **Kumar, S.**,& Verma, S. K. (2015). Enhanced threshold sensitive stable election protocol. *Journal of Computer Engineering*, 17(3), 27-33.
5. Sah, P., & **Kumar, S.** (2014). A New Approach to Distributed Energy-Efficient Cluster for Heterogeneous WSNs. *International Journal of Computer Applications*, 975, 8887.
6. **Kumar, S.**,& Sah, P. (2015). A survey on energy efficient protocols for wireless sensor network. *International Journal of Computer Applications*, 120(2).

Reviewed publications:

1. Prasad, M. S., & Panigrahi, T. (2019). Distributed maximum likelihood doa estimation algorithm for correlated signals in wireless sensor network. *Wireless Personal Communications*, 105(4), 1527-1544.
2. One article is under review process in *wireless personal communications (springer journal)*.

Book Chapters:

1. **Shekhar Kumar** & Gaurav Joshi. *Crop Monitoring System*. In *Exploring the Himalayas: Land and the People*. Aadharshila Prakashan. ISBN: 978-93-81913-60-4
2. Gaurav Joshi & **Shekhar Kumar**. *Role of Technology in Indian Culture*. ISBN: 978-81-926605-7-8

6. Conferences / Workshops / Seminars

1. Organized a Guest lecture on “Cyber Security Awareness” on date 6th November 2025, in the Computer Science, Department at M.B. Govt. P. G. College, Haldwani, Nainital.
2. Presented a paper on international seminar on “Understanding Sustainable Homestay Tourism as driving factor of Tourist’s satisfaction through structural equation modelling” organized by Department of Sociology, M.B.Govt.P.G College, Haldwani on date 14th -15th February 2025.
3. Organizing member on two week national workshop on “ Basic Concepts of Mathematics & Recent Trends in Quantum mechanics” on 20th January to 31st January 2025.
4. Participated two days Faculty Enablement Program conducted from November 12, 2024 to November 14, 2024 conducted by Infosys, Chandigarh.
5. Successfully completed the course “Introduction to Data Science” on 14 November, 2024 by Infosys Springboard.
6. Successfully completed the course “Introduction to Artificial Intelligence” on 13 November, 2024 by Infosys Springboard.
7. Participated in a workshop on “ 75 Years of Independence: Tribal education and Challenges” on 10-11 November 2024, conducted at M.B. Govt. P. G. College, Haldwani, Nainital.
8. Successfully completed online Course on “AI/ML for Geodata Analysis” from 19 August 2024 to 23 August 2024 conducted by IIRS, Dehradun with “A+’ grade.
9. Successfully completed online Course on “LIDAR Data Processing and Application” from 05 August 2024 to 16 August 2024 conducted by IIRS, Dehradun with “A+’ grade.
10. Successfully completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC organized by MMTC centre Himanchal Pradesh University, Shimla from 05-08-2024 to 14-08-2024.
11. Invited as a subject expert in Computer Science in the Walk In Interview board of Teachers by EMRS Khatima U S Nagar on date 29 Nov 2023.
12. Participated in a “Workshop/FDP on capacity Building for University Teachers/Researchers/Scientists” under Uttarakhand Science Education & Research Centre (USERC) on 03rd October 2023, at R S Tolia UAoA, Nainital.
13. Organised a workshop on “ 75 Years of Independence: Girl Child Education, Security and Self Reliance” on 27-28 February 2023, conducted at M.B. Govt. P. G. College, Haldwani, Nainital.
14. Successfully completed an Refresher Course from 13 Feb 2023 to 25 Feb 2023 conducted byUGC-HRDC (Himanchal Pradesh University, Shimla) with “A’ grade.

15. Successfully completed UGC approved short term professional development programme on "Implementation of NEP-2020 for University and college teachers" held from 9-17 sep 2022 and obtained 86% .
16. Successfully completed the course on "Application on SAR Technology in Diaster Management" sponsored by ISRO Diaster Management Support Programme organized by Department of Electronics and Communication Engineering IIT Roorkee from 22 Aug 2022 to 26 Aug 2022.
17. Participated in a workshop on " NAPS Technical Training and SDP awareness" on 11 October 2022, conducted at M.B. Govt. P. G. College, Haldwani, Nainital.
18. Organised a workshop entitled "National workshop on IPR" on 22nd March, 2021, conducted at M.B. Govt. P. G. College, Haldwani, Nainital.
19. Successfully completed an Induction Programme from 23 september 2020 to 31 October 2020 conducted by UGC-HRDC (AMU Aligarh) with 'A' grade.
20. Successfully completed a workshop on "ICT Tools for Teaching, Learning Process and Institute" from 10th -21st August 2020, organized by EICT Academics NIT Patna, MNIT Jaipur, PDPM IITDM Jabalpur, IIT Guwahati and IIT Roorkee.
21. Successfully completed a workshop on "Ethical Hacking and Cyber Security" from 08 July 2020 to 12 July 2020 August 2020, organized by Fedration of Community Radio Stations New Delhi.
22. Participated in a workshop on "Intellectual Property Rights"organized by Government Degree College Garurbanj, Almora, Uttarakhand, held on 15th Feb 2020.
23. Organised a one day national workshop entitled " Advances in Computer Networking" on 28 February 2020 at M.B. Govt. P. G. College, Haldwani, Nainital.
24. Participated in a workshop on "Industry Academia Gap: Diagnosis and Remedies" jointly organized by college of technology Pantnagar and The Institution of Engineers (India) held on 15th Feb 2020.
25. Organized a workshop on " Government e-Marketplace (GeM)" on 10-11 January 2020, organized by Rastriya Uchchatar Shiksha Abhiyan Cell (RUSA) at M.B. Govt. P. G. College, Haldwani, Nainital.
26. Participated in Uttarakhand Educator's Summit 2019 held on 10th December 2019.
27. Participated in a national conference on "Leveraging New Technology for Reimagining Education"on 22ndNovember 2019 organized by MIET KumaonHaldwani (Nainital).
28. Attended a national seminaron " Progression and Innovation in Higher Education" organized by Internal Quality Assurance Cell, M.B. Govt. P. G. College, Haldwani, Nainital on 16th November 2019.

29. Organized a workshop on “Developing Synergy Between Information Communication Technology & Academics” from 25th – 31st March 2017, organized by M.B. Govt. P. G. College, Haldwani, Nainital.

7. Lectures Delivered:

1. Delivered a lecture as a resource person on topic “Cyber Security ” organized by college of teacher education at M.B. Govt. P.G. College, Haldwani, Nainital on date 03 November 2025.
2. Delivered a lecture on “ Computer Application in Research” on 12/03/2024 in pre-phd Coursework organized by M.B. Govt. P.G. College, Haldwani, Nainital.
3. Delivered a lecture as a resource person on topic “One Week Summer Workshop followed by Two Day Seminar ” organized by college of teacher education at M.B. Govt. P.G. College, Haldwani, Nainital.
4. Chief speaker on the topic “ Online and Digital education- Ensuring Equitable use of technology” organized by ET Department, D.I.E.T. Udham Singh Nagar Uttarakhand on 22th September 2020.
5. Delivered a lecture as a resource person on topic “ OBS tutorial for teachers” organized by college of teacher education at M.B. Govt. P.G. College, Haldwani, Nainital.
6. Key note speaker on the topic “ Use of ICT in classroom practices and possibilities” organized by ET Department, D.I.E.T. Udham Singh Nagar Uttarakhand on 18 & 19 February 2020.
7. Delivered a lecture as a subject expert on topic “Application of Mobile Applications in teaching” organized by college of teacher education at M.B. Govt. P.G. College, Haldwani, Nainital on 9th March 2019.
8. Delivered a lecture as a resource person on topic “ Development of Computer Skills” organized by college of teacher education at M.B. Govt. P.G. College, Haldwani, Nainital.

8. Awards and Achievements

- MHRD scholarship (approx 12400/- month-) for 2 years in master degree.
- Master degree with honors.
- First prize winner in National Science Exhibition and w etc

9. Administrative Responsibilities

- Head, Department of Computer Science (2019 – Present)

- Nodal officer, Samarth (Present)
- Member, IQAC / NAAC / Research Committee
- Asst Coordinator, IGNOU (2018-2025).

10. Professional Memberships

- Member, Institute of Electrical and Electronics Engineers (IEEE)