

Bio-Data



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Designation : Assistant Professor
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Guru Jambheshwar University of Science & Technology
[NAAC 'A' Grade State Govt. University]
Hisar, Haryana – India.

Academic Qualification:

Sr. no.	Degree	University	Year	Subject	%
1.	Diploma	HSBTE.	2006	Computer Engineering	62.85
2.	B.Tech	GJUS&T, Hisar	2009	Information Technology	69.16
3.	M.Tech	KUK, Kurukshetra	2011	Computer Science & Application	72.5
4.	Ph.D	GJUS&T, Hisar	2022	Computer Science & Engineering	Awarded

Present Work:

Teaching Experience: 13 Years (as an Assistant Professor)

Assistant Professor in Dept. of Computer Science & Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Since 2014.

Awards and Activities:

1. An exclusive honor certificate has been received for excellent work, outstanding contribution and remarkable role of achievement in the field of best educationist. Pride of Bharat Award with Radiant Talent Book of Record. ID-POB/2024/C/192/0304, Date: 3rd April 2024.
2. **Mentor: Code Quasars** team, went for participating in Smart India Hackathon 2023 held on 19th and 20th December 2023 at Swami Keshvanand Institute of Technology (SKIT), Management & Gramothan, Rajasthan, Jaipur.
3. Worked as a Jury member at University level Ideathon program held on dated 05-02-2023.
4. Working as an Technical Program Coordinator at the Department level since 2023.
5. Working as **SPOC** for Smart India Hackathon event since 2017 to 2023, Guru Jambheshwar University of Science & Technology.
6. Designing an Android Application “**GJUST**” for the University campus. The team has two students from the MCA class. We are working on different modules.
7. **Mentor:** Participated and won 1st prize in Smart India Hackathon 2020 (World Biggest Digital Movement) with the team name “**WHITEROSE**” for problem ID PC87, DAE held on 1st – 3rd August-2020, Online through Google Meet, under the Department of Atomic Energy.
8. Corona **Help Service** App developed by the team of CSE in Corona pandemic lockdown period for society in April 2020.
9. Organized a one-day event “**Smart GJUST Hackathon 2020**” on 28th January under the guidance of MHRD and AICTE as per the instruction given on SIH 2020 web portal.
10. Smart India Hackathon 2019 won 1st prize in the **Android Application Development** section under the Ministry of Ayush, India.
11. SLA Coordinator, TEQIP-III, Guru Jambheshwar University of Science & Technology, Hisar.
12. **Mentor** of Smart India Hackathon for students of Dept. Computer Science Engineering, since Jan-2017.
13. **Program Officer** in Nation Service Scheme (NSS), Guru Jambheshwar University of Science & Technology, Hisar.

14. Nodal Officer in Bharat Summer Internship Scheme in 2018, Guru Jambheshwar University of Science & Technology, Hisar.

Teaching Experience:

1. Ten years teaching experience as an Assistant Professor in Dept. of Computer Science & Engineering at the Guru Jambheshwar University of Science & Technology, Hisar till date.
2. One year teaching experience as an Assistant Professor in Deptt of Computer Science, Ambala College of Engineering, Ambala Cantt.
3. One year teaching experience as an Assistant Professor in the Department of Computer Engineering, Guru Nanak Institute, Mullana, Ambala Cantt.
4. One year teaching experience as an Assistant Professor in the Department of Computer Engineering at E-Max Group of Institutions, Mullana, Ambala Cantt.

Technical Domain:

C, C++, Java Programming, .Net Framework, HTML5, Android Programming, R Studio, MATLAB, Python Programming, Kali Linux, Software Development, Cyber Security & Safety, Internet of Things using Simulator, Hardware and Software troubleshooting. Computer System Architecture, Machine Learning, Evolutionary Approaches.

Expert Lecture:

1. Appointed as Master Trainer for the Three Days (27th to 29th January, 2024) Faculty Development Program on Skill Enhancement for **Vocational Education Trainers of the Govt. Schools** of Haryana under the supervision of Shri Vishwakarma Skill University, Haryana.
2. Delevered an expert lecture on the topic: "**Career in Artificial Intelligence**" dated 30th January 2024 at Govt. College Hansi, Hisar, Haryana.
3. Delevered an expert lecture on the topic: "**A Roadmap for Career in AI & Computer Technology**" dated 11th January 2024 at Govt. PG College Hisar, Haryana
4. Delivered an expert lecture on topic "**Introduction to MS office (Word, PowerPoint and Excel)**" on date 18.10.2023 through online mode in three days' training on "**Methods and Techniques of Research and Academic Writing**" organized by Department of Basic

Engineering, COAE&T, CCSHAU, Hisar, under NAHEP-IDP from 16-18 October 2023 for the UG, PG, PhD students.

5. Delivered online two expert lectures on topic “**Data Visualization using AI Tools (Hands on Session)**” in FDP titled: “**Recent Trends in Deep Learning & Large Language Models**”, dated: 10-10-2023, Jointly organized by E&ICT Academy IIT Roorkee and Delhi Technical Campus, Greater Noida, Supported by MeitY, Government of India.
6. Delivered five expert lectures in STTP program on **Python Programming & Data Analytics** from 26th August - 10th September 2023 organized by the department of Computer Science & Engineering, GJUS&T, Hisar, Haryana.
7. Delivered an expert lecture on topic: **Cyber Security and Safety Measures** on dated 07-09-2022, HRDC, Chaudhary Bansi Lal University, Bhiwani, Haryana.
8. Delivered an expert talk on the topic “**Cyber Security & Safety Measures for Online Teaching Learning**” on dated January 25, 2022 for the Cluster level training program at the Govt. Sr. Sec. School, Pali, Hisar Haryana.

Conferences / Workshop/ Event Attended/Organized:

1. Received a certificate on successful completion of a workshop on **How to Write A Research Project Proposal**. Held on 24th September 2023. Adroid Connectz Pvt Ltd.
2. Worked as coordinator for 3-hour Workshop on “**Essential Documents Formatting Skills**” on 26th November 2023, organized by the Department of CSE, GJUS&T, Hisar.
3. Worked as coordinator for Half-Day workshop on “**Cyber Security and Cyber Crime**” on 21st November 2023, Organized by the Department of CSE, GJUS&T, Hisar.
4. Organized a one-day event “**Smart GJUST Hackathon 2023**” on 22 September 2023 under the guidance of MHRD and AICTE as per the instruction given on SIH 2023 web portal.
5. Worked as coordinator in the STTP program on “**Python Programming & Data Analytics**” on dated: 26th -10th September 2023, organized by Dept. of Computer Science & Engineering, CSE, GJUS&T.
6. **Refresher Course:** Online participated in UGC sponsored refresher Course on “**Artificial Intelligence and Machine Learning**” from 09-01-2023 to 21-01-2023. Course was held at HRDC, Punjabi University, Patiala.

7. Online two weeks faculty development programme on "**Malware Analysis with Data Science**" jointly organized by (NIT Patna, IIITDM Jabalpur and MNIT Jaipur) under the Ministry of Electronics Information Technology, Government of India from dated 29-08-2022 to 09-10-2022.
8. Organized a one-day event "**Smart GJUST Hackathon 2022**" under the guidance of MHRD and AICTE as per the instruction given on SIH 2022 web portal.
9. One Week Online Faculty Development Programme on "**Blockchain assisted Federated Machine Learning for Securing Big Data Analytics and IoT**" organized by Department of Information Technology at Dr B R Ambedkar National Institute of Technology, Jalandhar from 08-04-2022 to 12-04-2022.
10. One-week faculty development programme on "**Information & Cyber Security**" organized by Department of Computer Science and Engineering, GJUS&T, Hisar, from 27-09-2021 to 02-10-2021. Sponsored by AICTE
11. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "**Machine Learning in Medical Image Processing**" from 05/09/2021 to 09/09/2021 at Katihar Engineering College Katihar.
12. Attended the AICTE-ISTE approved Orientation/Refresher Programme on "**Data Structure and Algo Using Python**" held from 18.05.2021 to 25.05.2021 organized by Priyadarshini Institute of Engineering and Technology, Nagpur, Maharashtra.
13. Attended a one-day workshop on "**Ethical Concerns in Research**", organized by the Department of Mechanical Engineering, GJUS&T, Hisar on February 22, 2021.
14. Attended workshop in Finland Labs in association with National Social Summit, IIT Roorkee, is 2 Days Instructor Led Live online "**ML & AI Using Covid 19 Virus Data Analysis**" from 23rd & 24th May 2020.
15. Organized a one-day event "**Smart GJUST Hackathon 2020**" on 28 January 2020 under the guidance of MHRD and AICTE as per the instruction given on SIH 2020 web portal.
16. Co-Coordinator in Faculty Development Program on "Emerging Trends in Machine Learning Technologies" during 20th-25th January 2020 organized by the Dept. of Computer Science & Engineering.
17. Attended Faculty Development Program on "**Emerging Trends in Machine Learning Technologies**" from 20th-25th January 2020 organized by the Department of Computer Science & Engineering, GJUST, Hisar.

18. Attended Faculty Development Program on "**Recent Trends in AI, ML and ICT**" during 06th-10th January 2020 organized by the Department of Electronics and Communication Engineering, GJUST, Hisar.
19. Attended a Short-Term Course on **Advanced Optimization Techniques for Engineering Applications (AOTE-2019)** during 22nd-26th July, 2019 organized by the Department of Electronics and Communication Engineering, National Institute of Technology, Kurukshetra.
20. Participated a Short-Term Course on "**Data Analytics**" organized by National Institute of Technology, Kurukshetra & AEoN Learning Pvt. Ltd. during 26th-30th June-2019.
21. **Mentor:** Participated and won 1st prize in Smart India Hackathon 2019 (World Biggest Digital Movement) with the team name "**BUG2DEBUG**" on 1st - 2nd March-2019 held at PSIT, Kanpur under the Ministry of Ayush.
22. **Workshop:** Training Programme on "**MATLAB and its Related Toolboxes**" held from 8th-9th March 2019, GJUS&T Hisar.
23. **Seminar:** Attended the National Seminar on "**Design of 5G Mobile Networks using Soft Computing Techniques**", organized by Dept, of CSE, GJUS&T, Sponsored by UGC under SAP held on 28th-29th March 2019.
24. **Workshop:** Attended two days National Workshop on "**Recent Trends in Engineering & Technology**" organized by GJUS&T under TEQIP-II. Held on 27th-28th Feb. 2018.
25. **Refresher Course:** Participated in UGC Sponsored Interdisciplinary Refresher Course on "**Information & Communication Technology**" from 21-06-2018 to 11-07-2018 and obtained grade 'A'. Course was held at GJUS&T, Sponsored by HRDC centre.
26. **Workshop:** One day Workshop on **AIDS:" Know Your Status"** Organized by NSS, GJUS&T, Hisar on 30th November 2018.
27. **Conference:** Springer/ICACIE 3rd **International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018)**, Bhubaneswar, India – 22nd -24th Dec-2018.
28. **Symposium:** Attended the 63rd DAE Solid State Physics Symposium, organized by Bhabha Atomic Research Centre, Mumbai, sponsored by Board of Research in Nuclear Sciences, Department of Atomic Energy, Govt. of India, held at GJUS&T, Hisar during 18-20 December 2018.
29. **Workshop:** Attended the National Workshop on "**Printing & Packaging Industry in Context of Industry 4.0**" held on 24th March 2017.

- 30. Seminar:** Attended the National Seminar on “**Design of 5G Mobile Networks using Soft Computing Techniques**”, organized by Dept, of CSE, GJUS&T, Sponsored by UGC under SAP held on 27th-28th March 2017.
- 31. Mentor:** Participated in Smart India Hackathon 2017 (World Biggest Digital Movement) with team name “**GJUSTCS2**” on 2nd - 3rd April-2017 held at GTU, Gujarat, under the Ministry of Defense with nodal Office ISRO.
- 32. Workshop:** Attended one-day national workshop on “**Outcome Based Education**” held on 21st July 2017 at GJUS&T, Hisar.
- 33. Orientation Programme:** Attended in the 29th Orientation Programme from 18-05-2016 to 14-06-2016 and obtained grade-‘A’ at UGC-HRDC, Punjabi University, Patiala.
- 34. Faculty Development Programme (FDP):** FDP on “**Emerging Trends in Soft Computing Technologies**” organized by Dept. of Computer Science & Engineering, GJUS&T, Sponsored by TEQUIP-II from 5th -10th September 2016.
- 35. Workshop:** participated in Workshop “**Cloud Security and Privacy**” under the (Global Initiative for Academic Networks (GIAN) organized by NIT, Goa sponsored by MHRD Govt. of India, on 12th -18th Dec. 2016.
- 36. Workshop:** Participated in the UGC sponsored One Week Interaction Programme-cum Workshop on “**Research Methodology for Ph.D. scholars in Science & Engineering**” from 9th-14th February 2015.
- 37. Workshop:** Participated in one day Workshop on “**Research Innovations and Intellectual Property Rights: Strategies and Challenges for Commercialization**” Organized by IPR& TC Cell at GJUS&T Hisar on 21st February 2015.
- 38. Conference:** Attended the National Conference on Advances Computing Communication Network and Electrical System held at UIET, Rohtak on 27th -28th March 2012.
- 39.** Attended, Hands-on Training on “**Bioinformatics tools for Genomics Research Problem Solving**” Organized by Bioinformatics Centre (BIF) sponsored by Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India, from 19th-20th March 2015 at GJUS&T.
- 40. Delegate:** in Training & Awareness Programme on “**Eyes on ISON**” –C2012:S1 (ISON) COMET organized by Haryana Vigyan Manch at E-max Group of Institutions, Gola (Ambala) on 24th-25th Sep. 2013.

Books/ Chapter Publication:

1. S. Prakash, Sunil Kumar, Manisha Mali, A Vijaya Kumar, "**Deep Dive into Deep Learning**", ISBN :978-93-5747-117-6, Publisher: Iterative International Publishers (IIP), 2023.
2. Revised a ITI Course book titled: **Abha Sharma, Sunil Kumar** revised as per NSQF Level -3, 3rd edition, ISBN: 978-93-5192-344-2, Published by Satya Prakashan, New Delhi.
3. Written a chapter for book titled: "**Leveraging Computer Vision to Biometric Applications**" Publisher: CRC PRESS, Taylor & Francis Group.

Dissertation Supervised (MTech.):

1. **Mamta Sharma** – Performance Evaluation of Frequent Pattern Mining using Genetic Algorithm: The Review (2013-2015).
2. **Sumit Kumar** – Clustering: An art of grouping related objects (2014-2016).
3. **Parmod Kumar** – Intrusion Detection Systems in Clustering: A Review (2015-2017).
4. **Nikita Sandhu** – Decision Tree Problem Solving Techniques: A Review (2016-2018).
5. **Jony Malik** – Domain Specific Fine Tuning of Pre-trained Language Model in NLP (2018-2020).
6. **Vivek** – Need of Security and Performance Enhancement in Cloud Environment for Distance Learning (2019-2021)
7. **Sunena** -- Medical image classification using fine- tuned federated learning system (2020-2022)
8. **Priyanka** -- Sentiment Analysis for Indian local languages using NLP (2021-2023)

Publication Details:

Year 2024

1. Uma Rani, Sunil Kumar et al., An optimized neural network with AdaHessian for cryptojacking attack prediction for Securing Crypto Exchange Operations of MEC applications. Journal of Cloud Computing, Volume 13, Article no. 63(2024), SSN/eISSN:2192-113X, SCIE. <https://doi.org/10.1186/s13677-024-00630-y>.
2. Priyanka, Vashishtha, J., Kumar, S. (2024). A Comprehensive Review: Sentiment Analysis for Indian Local Languages. In: Das, S., Saha, S., Coello Coello, C.A., Bansal, J.C. (eds) Advances in Data-Driven Computing and Intelligent Systems. ADCIS 2023. Lecture Notes in Networks

and Systems, Pages 1-13, vol 893. Springer, Singapore. https://doi.org/10.1007/978-981-99-9518-9_1

Year 2023

1. S. Sharma and S. Kumar, “Federated Learning Approaches to Diverse Machine Learning Model: A Review,” in IOT with Smart Systems, J. Choudrie, P. N. Mahalle, T. Perumal, and A. Joshi, Eds., in Lecture Notes in Networks and Systems. Singapore: Springer Nature, August 2023, LNNS, volume 720, pp. 259–269. doi: https://doi.org/10.1007/978-981-99-3761-5_25.

Year 2022

1. S. Kumar and S. Ratnoo, “An Optimal Random Forest Classifier for Diagnosing Covid-19 from X-ray and CTscan Images,” Journal of Scientific Research, vol. 66, no. 02, pp. 189–197, 2022, doi: <https://doi.org/10.37398/JSR.2022.660225>

Year 2021

2. S. Kumar and S. Ratnoo, “Multi-objective hyperparameter tuning of classifiers for disease diagnosis,” Indian Journal of Computer Science and Engineering, vol. 12, no. 5, pp. 1334–1352, Oct. 2021, <https://doi.org/10.21817/indjcse/2021/v12i5/211205081>
3. Sunil Kumar, Saroj Ratnoo, Jyoti Vashishtha, “**Hyper Heuristic Evolutionary Approach for Constructing Decision Tree Classifiers**”, *Journal of Information and Communication Technology*, 20(2), 249-276, ISSN Print 1675-414X, <https://doi.org/10.32890/jict2021.20.2.5> , ESCI, February 2021.
4. Jony, & Vashishtha, Jyoti & Kumar, Sunil, “**Domain Specific Fine Tuning of Pre-trained Language Model in NLP**”, *Proceedings of International Conference on Sustainable Expert Systems*, pp 403-417, LNNS, volume 176, ISBN 978-981-334-355-9 , April 2021, https://dx.doi.org/10.1007/978-981-33-4355-9_31

Year 2020

1. Jony, Jyoti, Sunil Kumar, "A Comprehensive Study on Analytics of Social Media Text using Deep Learning", *Journal of Emerging Technologies and Innovative Research*, Volume 7, Issue 7, pp. 1963-1967, July 2020.

Year 2019

1. Sunil Kumar, Saroj Ratnoo, Jyoti Vashishtha, "**Enhanced Decision Tree Algorithm for Discovering Intra and Inter-Class Exceptions**", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, Volume-8 Issue-11, DOI: 10.35940/ijitee.K1816.0981119, Scopus, September 2019.
2. Sunil Kumar, Saroj Ratnoo "**An Enhanced Decision Tree Algorithm for Discovery of Intra and Inter-Class Exceptions**" *2nd National Seminar on Design of 5G Mobile Networks using Soft Computing Techniques*, organized by Dept, of CSE, GJUS&T and Sponsored by UGC under SAP held on 28th-29th March 2019.

Year 2018

1. Nikita Sandhu, Sunil Kumar: "**Decision Tree Problem Solving Techniques: A Review**", *International Journal of Computer Science & Engineering*, ISSN: 2347-2693], Vol.-6, Issue-7, July 2018.
2. Sunil Kumar, Saroj Ratnoo: "**Enhanced Decision Tree Algorithm for Discovery of Exceptions**", in *Springer/ICACIE 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018)*, Bhubaneswar, India – 22nd -24th December 2018.

Year 2017

1. Parmod Kumar, Sunil Kumar: "**Intrusion Detection Systems in Clustering: A Review**", *International Journal for Research in Applied Science & Engineering Technology (IJRASET)* [ISSN: 2321-9653], Vol. 5 Issue VIII, August 2017.
2. Parmod Kumar, Sunil Kumar: "**Big Data Analysis-A Review**", 1st National Seminar on *Design of 5G Mobile Networks using Soft Computing Techniques*, held on 27th-28th March 2017.

Year 2016

1. Sumit Kumar, Sunil Kumar: "**Clustering: An art of grouping related objects**", in *International Journal of Advance Research in Computer Engineering & Technology* [ISSN: 2348-6627], Vol. 5, Issue 7, July 2016.

Year 2015

1. Mamta Sharma, Sunil Kumar: **“Performance Evaluation of Frequent Pattern Mining using Genetic Algorithm: the Review”** *International Journal of Recent Research Aspect* [ISSN: 2349-7688], Vol. 2, Issue 2, pp. 58-61, June 2015.

Dr. S. K. Verma

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