| **Dr. Krishan Kumar** | | | | |
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| Assistant Professor, Department of Computer Science & Engineering,  National Institute of Technology Uttarakhand, Srinagar, Pauri Garhwal, Uttarakhand, India-246174  Telephone Symbol Icon, Phone transparent background PNG clipart | Call  logo, Phone icon, Instagram logo transparent +91-1346-567-562 (O), +91-8979-660-874 (M), +91-8955-828-764 (W)  Cute Email Icon Png, Transparent Png - kindpng kkberwal[@](about:blank)nituk.ac.in (O), [krishanberwal1988@gmail.com](mailto:krishanberwal1988@gmail.com) (P) [University of Hagen Teacher Professor Computer Icons, teacher, angle, logo,  monochrome png | PNGWing](https://sites.google.com/view/k2berwal/home?authuser=3)  [ResearchGate Logo Download Vector](https://www.researchgate.net/profile/Krishan-Kumar-59) [File:ORCID iD.svg - Wikimedia Commons](https://orcid.org/my-orcid?orcid=0000-0002-7068-6541) | | | | |
| **SUMMARY**  Dr. Krishan Kumar received Ph. D. and M. Tech. degree in Computer Science and Engineering (CSE), from Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India, in March 2019 and June 2014 respectively, and received a B. Tech. degree in CSE, from Ch. Devi Lal Memorial Government Engineering College, Panniwala Mota, Haryana, India in May 2011. Dr. Kumar is currently working as an Assistant Professor (w.e.f. 10th July 2014) and Head (w.e.f. 14th March 2019) in the department of CSE, National Institute of Technology Uttarakhand, Srinagar Garhwal, Uttarakhand, India. Dr. Kumar is discharging the responsibilities of Coordinator PTP. He was also a member or coordinator of various Institute level committees including the Institute Purchase Committee, Institute Library Committee, Senate, Advisory Committee on Faculty Recruitment, Campus Wide Networking, CCTV Surveillance, etc.  Currently, Dr. Kumar is working on a DST-sponsored project titled "Secret Sharing Scheme Based Technology for Multimedia Security over Cloud." He supervised 06 M. Tech. scholars and leading 04 Ph. D. scholars and 01 M. Tech. scholar. He authored or coauthored more than 75 technical research articles in reputed international conferences and journals, including IEEE Transactions. His research article was selected for the best student paper award in the IAPR endorsed International conference PReMI, ISI Kolkata, India, in December 2017. He was elevated to Senior Member of IEEE USA in April 2020. Dr. Kumar was appointed as an Editor at the IETE Journal of Research (SCI, IF: 2.333) in March 2021. His research interests include machine learning, deep learning, video processing, multimedia analysis, and Cloud computing. | | | | |
| **EMPLOYMENT** | | | | |
| **National Institute of Technology Uttarakhand, Srinagar Garhwal, Uttarakhand, India July 2014 – Present**  Assistant Professor, Department of Computer Science and Engineering | | | | |
| **Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India July** **2012 – June 2014**  Teaching Assistant, Department of Computer Science and Engineering | | | | |
|  | | | | |
| **EDUCATION** | | |  | |
| **Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India**  **Ph. D.** in Computer Science and Engineering, **March 2019** **July 2015 – March 2019**  Thesis: *Performance Enhancement of Events Detection and Summarization models in Videos over Cloud*  Supervisor: Dr. Deepti D. Shrimankar | | | | |
| **Visvesvaraya National Institute of Technology Nagpur, Maharashtra, India**  **M. Tech.** in Computer Science and Engineering, **June 2014 July 2012 – June 2014**  Thesis: *Distributing the Computing over Cloud Using Docker Containers*  Supervisor: Dr. Manish P. Kurhekar | | | | |
| **C. D. L. M. Government Engineering College, Chaudhary Devi Lal University Sirsa, Haryana, India**  **B. Tech.** in Computer Science and Engineering, **May 2011**  **July** **2007 – May 2011** | | | | |
| **RESEARCH GRANTED PROJECT** | | | | |
| * **Title:** *Secret**Sharing Scheme Based Technology for Multimedia Security Over Cloud* | | | | |
| * **Role:** Principal Investigator | | | | |
| * **Funding Agency:** Department of Science and Technology, Govt. of India | | | | |
| * **Amount:** Rs. 40.00 Lac | | | | |
| * **Duration:** 03 Years | | | | |
| **RESEARCH INTEREST**   * Machine Learning * Deep Learning * Video Processing * Multimedia Analysis * Cloud Computing | | | | |
| **RESEARCH SUPERVISED**   * **Ph. D. Scholar:** 04 (Ongoing) * **M. Tech. Scholar:** 06 (Completed) and 01 (Ongoing) | | | | |
| **AWARDS, RECOGNITIONS, AND HONORS** | | | | |
| * Appointed as a **Senior Editor** at **Artificial Intelligence Evolution,** February 2022. * Appointed as an **Editor** at **IETE Journal of Research (SCI),** February 2021. * Elevated as **Senior Member, IEEE USA** (SM'20), April 2020. * **Best student paper award** in IAPR endorsed International Conference Pattern Recognition and Machine Intelligence (PReMI), ISI Kolkata, December 2017. * **Qualify Phase-II,** Cloud Hackathon Contest 2013-14, IBM, India, March 2014 * **GATE** (**99.05 percentile**) scholarship received for 24 months at VNIT Nagpur, India, July 2012- June 2014. | | | | |
| **PROFESSIONAL ACTIVITIES AND MEMBERSHIPS** | | | | |
| * **Editor:** IETE Journal of Research (SCI, IF-2.333) * **Senior Editor:** Artificial Intelligence Evolution * **Journal/Transactions/Maganize/Letter Reviewer**: IEEE Transactions on Multimedia, IEEE Transactions on Industrial Informatics, IEEE Transactions on Industrial Electronics, IEEE Transactions on Consumer Electronics, IEEE Transactions on Neural Network and Learning Systems, IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Emerging Topics in Computational Intelligence, IEEE Transactions on Artificial Intelligence ACM Transaction on Asian and Low-Resource Language Information Processing, ACM Transactions on Multimedia Computing, Communications, and Applications, IEEE Consumer Electronics Magazine, Pattern Recognition Letters and many more. * **Conference Reviewer/TPC Member:** ICRAIE’20, ICCEDE’20, IICS’21, ISCON’21, SCRS’21, icSoftComp’21, BDA’21, MISP’22,INAIT’19, ICDLAIR’19, ICSC’19, ICFV’19, CICN’19, DISP’19, ICFIR’19, CICT’18, ICACCT’18, CICT’17,  SoCTA’18, RAIT’18, SSCC’18, ICACCT’18, and many more. * **Conference Session Chair:** ICACA’18, ICRAIE’20, ICCEDE’20, IICS’21, ISCON’21, SCRS’21, icSoftComp’21, BDA’21, MISP’22, and many more. * **Senior Member,** IEEE (Membership No. - 94273588) * **Life Member,** ISTE (Membership No. - LM-132090) * **Life Member,** IETE (Membership No. - M-502324**)** * **Life Member,** IUIAPR (Membership No. - L-248) * **Member,** ACM (Membership No. - 9063490) * **Member,** IET (Membership No. - 1100849709) | | | | |
| **SELECTED JOURNAL PUBLICATIONS (SCI/SCIE): 17** | | | | |
| [J017] **Krishan Kumar,** Kunal Patange, Pushkar Pete, Manjiri Wankhade, Arpitrama Chatterjee, Manish Kurhekar, *Power and Energy-efficient VM scheduling in OpenStack Cloud Through Migration & Consolidation using Wake on LAN*, **IETE Journal of Research (Core-C, IF-2.333, Q3, SCI/E),** March 2022. DOI: 10.1080/03772063.2022.2060872.  [J016] Aditya Mantri, Navjot Singh, **Krishan Kumar**, and Sanjay Dahiya, [*Pre-Encryption and Identification (PEI): An Anti-crypto ransomware technique*](https://www.google.com/url?q=https%3A%2F%2Fwww.tandfonline.com%2Fdoi%2Ffull%2F10.1080%2F03772063.2022.2048706&sa=D&sntz=1&usg=AOvVaw3H4r6o2c5rmBppp72wIhHp), **IETE Journal of Research (Core-C, IF-2.333, Q3, SCI/E),** February 2022. DOI: 10.1080/03772063.2022.2048706.  [J015] **Krishan Kumar,** Abhya Mishra, Sanjay Dahiya and Ajay Kumar, [*A Technique for Human Upper Body Parts Movement Trackin*](https://www.google.com/url?q=https%3A%2F%2Fwww.tandfonline.com%2Fdoi%2Ffull%2F10.1080%2F03772063.2022.2048708&sa=D&sntz=1&usg=AOvVaw1Ok2tFXDBT8c6V-wIvKjYE)*g*, **IETE Journal of Research (Core-C, IF-2.333, Q3, SCI/E),** February 2022. DOI: 10.1080/03772063.2022.2048708.  [J014] **Krishan Kumar, P. Nishant, Maheep Singh, Sanjay Dahiya,**[*Image Encoder & Sentence Decoder based Description Generating Model: Storytelling*](https://www.google.com/url?q=https%3A%2F%2Fwww.tandfonline.com%2Fdoi%2Fabs%2F10.1080%2F09747338.2022.2044396%3Fsrc%3D%26journalCode%3Dtije20&sa=D&sntz=1&usg=AOvVaw1QXo0b7ZGIxxkhbBi598jW)*,* **IETE Journal of Education**, February 2022. DOI: 10.1080/09747338.2022.2044396.  [J013] **Krishan Kumar,** [*DEAF-BSL: Deep lEArning Framework for British Sign Language recognition*](https://www.google.com/url?q=https%3A%2F%2Fdl.acm.org%2Fdoi%2F10.1145%2F3513004&sa=D&sntz=1&usg=AOvVaw26JgyZ8tRrZImB3QQwSHFR), **ACM Transactions on Asian and Low-Resource Language Information Processing (Core-A, IF-1.413, Q3, SCI/E),** January 2022. DOI: 10.1145/3513004.  [J012] **Krishan Kumar,** [*P2BED-C: a novel Peer to Peer load Balancing and Energy eﬃcient technique for Data-centers over Cloud*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11277-021-09133-4&sa=D&sntz=1&usg=AOvVaw2cEvqDlp-TvRGrsusGKxi0), **Wireless Personal Communications: An International Journal (Core-C, IF- 1.671, Q3, SCI/E),** September 2021. DOI: 10.1007/s11277-021-09133-4.  [J011] Anshuman Darbari, **Krishan Kumar**, Shubhankar Darbari, Prashant L. Patil, [*Requirement of artificial intelligence technology awareness for thoracic surgeons*](https://www.google.com/url?q=https%3A%2F%2Fwww.ncbi.nlm.nih.gov%2Fpmc%2Farticles%2FPMC8254051%2F&sa=D&sntz=1&usg=AOvVaw0DzwmuvtKnXXj5n-2H4uuf)*,* **The Cardiothoracic Surgeon (ESCI),**Volume 29, Issue 1, pp. 1-10, July 2021. DOI: 10.1186/s43057-021-00053-4.  [J010] Aditya Vijayvergia, **Krishan Kumar**, [*Selective shallow models strength integration for emotion detection using GloVe and LSTM*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11042-021-10997-8&sa=D&sntz=1&usg=AOvVaw2J_roxmy71OE2c2mrDnua3)*,* **Multimedia Tools and Applications (Core-B, IF- 2.600, Q1, SCI/E)**, Volume 80, pp. 28349–28363, June 2021. DOI: 10.1007/s11042-021-10997-8.  [J009] Shikhar Sharma, **Krishan Kumar**, [*ASL-3DCNN: American sign language recognition technique using 3-D convolutional neural networks*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11042-021-10768-5&sa=D&sntz=1&usg=AOvVaw203mw0eLKG5IsxzhqOe93t)*,* **Multimedia Tools and Applications (Core-B, IF- 2.600, Q1, SCI/E)**, Volume 80, pp. 26319–26331, May 2021. DOI: 10.1007/s11042-021-10768-5.  [J008] **Krishan Kumar,** [*Text Query based Summarized Event Searching Interface System using Deep Learning over Cloud*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11042-020-10157-4&sa=D&sntz=1&usg=AOvVaw1U4J4M8hbeigngfbZv9Dfd), **Multimedia Tools and Applications (Core-B, IF- 2.600, Q1, SCI/E),** Volume 80, Issue 7, pp. 11079–11094, January 2021. DOI: 10.1007/s11042-020-10157-4.  [J007] Shikhar Sharma, **Krishan Kumar**, Navjot Singh, [*Deep Eigen Space Based ASL Recognition System*](https://www.google.com/url?q=https%3A%2F%2Fwww.tandfonline.com%2Fdoi%2Fabs%2F10.1080%2F03772063.2020.1780164%3FjournalCode%3Dtijr20&sa=D&sntz=1&usg=AOvVaw1h8-fmpOqrbLeQc76AYa-6), **IETE Journal of Research (Core-C, IF-2.333, Q3, SCI/E)**, Volume 36, Issue 3, pp. 265-274, July 2020, DOI: 10.1080/02564602.2018.1454347.  [J006] Rama Krishna Koppanati, **Krishan Kumar,** [*P-MEC: Polynomial congruence based Multimedia Encryption technique over Cloud,*](https://www.google.com/url?q=https%3A%2F%2Fieeexplore.ieee.org%2Fdocument%2F9121684&sa=D&sntz=1&usg=AOvVaw38U6r-QrF6tmpl4T-M5izh)**IEEE Consumer Electronics Magazine (IF- 3.789, Q1, SCI/E)**, Volume 10, Issue 5, pp. 41-46, June 2020. DOI: 10.1109/MCE.2020.3003127.  [J005] **Krishan Kumar,** [*EVS-DK: Event video skimming using deep keyframe*](https://www.google.com/url?q=https%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS1047320318303353%3Fcasa_token%3D23d_R0k3gAoAAAAA%3AJ0IQJrpy0fWkLWIUa9Ivug7qGnPCDpE0RsEeTz980LOkkahEunZZimbTGLAG5pfd8GHoMlwMk17k&sa=D&sntz=1&usg=AOvVaw0ziqc_ibINBTb3VTXcepEm)*,* **Journal of Visual Communication and Image Representation (IF- 2.678, Q1, SCI/E)**, Volume 58, pp. 345-352, January 2019. DOI: 10.1016/j.jvcir.2018.12.009.  [J004] **Krishan Kumar**, Deepti D. Shrimankar, [*ESUMM: Event SUMMarization on Scale-Free Networks*,](https://www.google.com/url?q=https%3A%2F%2Fwww.tandfonline.com%2Fdoi%2Fabs%2F10.1080%2F02564602.2018.1454347&sa=D&sntz=1&usg=AOvVaw33JUHUH1XPKA6oGbnKFPn4) **IETE Technical Review (IF-2.200, Q2, SCI/E)**, Volume 36, Issue 3, pp. 265-274, June 2018, DOI: 10.1080/02564602.2018.1454347.  [J003] **Krishan Kumar**, Deepti D. Shrimankar, [*Deep Event Learning boosT-up Approach: DELTA*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11042-018-5882-z&sa=D&sntz=1&usg=AOvVaw14FTv7BxYKBcECBguKDpnQ)*,* **Multimedia Tools and Applications (Core-B, IF- 2.757, Q1, SCI/E)**, Volume 77, Issue 20, pp. 26635–26655, March 2018. DOI: 10.1007/s11042-018-5882-z.  [J002] **Krishan Kumar**, Deepti D. Shrimankar, [*F-DES: Fast and Deep Event Summarization*](https://www.google.com/url?q=https%3A%2F%2Fieeexplore.ieee.org%2Fdocument%2F8012546&sa=D&sntz=1&usg=AOvVaw3qtN4KAWaXvZI6KDw7LDBM), **IEEE Transactions on Multimedia (Core-A\*, IF- 6.513, Q1, SCI/E),**Volume 20, Issue 2, pp. 323-334, August 2017. DOI: 10.1109/TMM.2017.2741423.  [J001] **Krishan Kumar**, Deepti D. Shrimankar, Navjot Singh, [*Eratosthenes Sieve based Key-frame Extraction Technique for Event Summarization in Videos*](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%2Fs11042-017-4642-9&sa=D&sntz=1&usg=AOvVaw3Kxx0DQE8gBYG0myyCMsyV)*,* **Multimedia Tools and Applications (Core-B, IF- 2.757, Q1, SCI/E)**, Volume 77, Issue 6, pp. 7383-7404, March 2017. DOI: 10.1007/s11042-017-4642-9. | | | | |
| **SELECTED INTERNATIONAL CONFERENCE PUBLICATIONS (Scopus): 43** | | | | |
| [C043]  Prachi Chauhan*,*Alok Negi, **Krishan Kumar**, Parul Saini and Shamal Kashid. Leveraging Advanced Convolutional Neural Networks and Transfer Learning for Vision-based Human Activity Recognition,Springer *International Conference on Robotics, Control and Computer Vision* **(ICRCCV’22)**, 2022. (Accepted).  [C042]  Ashray Saini, **Krishan Kumar**, Alok Negi, Parul Saini and Shamal Kashid. NPIS: Number Plate Identification System,Springer *International Conference on Robotics, Control and Computer Vision* **(ICRCCV’22)**, 2022. (Accepted).  [C041]  Parul Saini, **Krishan Kumar,** Alok Negi, Shamal Kashid and Ashray Saini. Driver Drowsiness Detection for Road Safety using Deep Learning,Springer *International Conference on Robotics, Control and Computer Vision* **(ICRCCV’22)**, 2022. (Accepted).  [C040]  Alok Negi, **Krishan Kumar**, Prachi Chauhan, Parul Saini, Shamal Kashid and Ashray Saini. AI-based Real-Time Monitoring for Social Distancing against COVID-19 Pandemic,Springer *International Conference on Robotics, Control and Computer Vision* **(ICRCCV’22)**, 2022. (Accepted).  [C039] Alok Negi, **Krishan Kumar**, Narendra S. Chaudhari, Navjot Singh, and Prachi Chauhan. Predictive Analytics for Recognizing Human Activities Using Residual Network and Fine-Tuning*, 8th* Springer *International Conference on Big Data Analytics*, pp. 296-310., Cham, 2021. DOI: 10.1007/978-3-030-93620-4\_21  [C038] Alok Negi, **Krishan Kumar**, Prachi Chauhan, Rishabh S. Rajput, [Deep Neural Architecture for Face mask Detection on Simulated Masked Face Dataset against Covid-19 Pandemic](https://www.google.com/url?q=https%3A%2F%2Fieeexplore.ieee.org%2Fdocument%2F9397196&sa=D&sntz=1&usg=AOvVaw33cwnWx_VeIdRTqkFKPIks), *IEEE International Conference on Computing, Communication, and Intelligent Systems (***ICCCIS’21***),*February 2021, pp. 595-600, DOI: 10.1109/ICCCIS51004.2021.9397196. Greater Noida (India).  [C037] Alok Negi, Prachi Chauhan, **Krishan Kumar**, Rishabh S. Rajput, [Face Mask Detection Classifier and Model Pruning with Keras-Surgeon](https://www.google.com/url?q=https%3A%2F%2Fieeexplore.ieee.org%2Fdocument%2F9358337&sa=D&sntz=1&usg=AOvVaw2M5PYk9OCHfG3zpahZzANA), *5th IEEE International Conference on Recent Advances and Innovations in Engineering (***ICRAIE’20***),*December 2020, pp. 1-6, DOI: 10.1109/ICRAIE51050.2020.9358337. Jaipur (India).  [C036] Abhishek Singh, Maheep Singh, **Krishan Kumar,** A Hybrid Method for Intrusion Detection Using SVM and k-NN, *Springer International Conference on Deep Learning, Artificial Intelligence and Robotics, (***ICDLAIR’19***),*December 2019, pp. 119-126, DOI: 10.1007/978-3-030-67187-7\_13. MNIT Jaipur (India).  [C035] Kaustubh Purohit, Avnish Kumar, Mayank Upadhyay, **Krishan Kumar,** [Symmetric Key Generation and Distribution Using Diffie-Hellman Algorithm](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-981-15-4032-5_14&sa=D&sntz=1&usg=AOvVaw31vy3O3FKiNObIhcknRt57), *4th Springer International Conference on Soft Computing: Theories and Applications (***SoCTA’19***),*June 2020, Volume 1154, pp. 135-141, DOI: 10.1007/978-981-15-4032-5\_14. NIT Patna (India).  [C034] Akshay Solanki, Rishabh Bamrara, **Krishan Kumar,** Navjot Singh, [VEDL: a novel Video Event searching technique using Deep Learning](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-981-15-0751-9_83&sa=D&sntz=1&usg=AOvVaw1IXnfHgD1sIXkm-Ph018nT), *3rd Springer International Conference on Soft Computing: Theories and Applications (***SoCTA’18***),*February 2020, Volume 1053, pp. 905-914, DOI: 10.1007/978-981-15-0751-9\_83. NIT Jalandhar (India).  [C033] Abhay Mishra, **Krishan Kumar,** Parveen Kumar, Prabhkar Mittal,[A novel approach for handwritten character recognition using K-NN classifier](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%252F978-981-15-0751-9_81&sa=D&sntz=1&usg=AOvVaw27iAj9ZaC2WZpOTXjhmW1T), *3rd Springer International Conference on Soft Computing: Theories and Applications (***SoCTA’18***),*February 2020, Volume 1053, pp. 887-894, DOI: 10.1007/978-981-15-0751-9\_81. NIT Jalandhar (India).  [C032] **Krishan Kumar**, Rishabh Bamrara, Prabhkar Gupta, Navjot Singh**,** [M2P2: Movie’s trailer reviews based Movie Popularity Prediction system](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-981-15-0751-9_62&sa=D&sntz=1&usg=AOvVaw1i1ZJZYFgD1IbDHI3dsgfE), *3rd Springer International Conference on Soft Computing: Theories and Applications (***SoCTA’18***),*February 2020, Volume 1053, pp. 671-681, DOI: 10.1007/978-981-15-0751-9\_62. NIT Jalandhar (India).  [C031] Rama Krishna Koppanati, **Krishan Kumar,** Saad Qamar,[E-MOC: An Efficient Secret Sharing Model for Multimedia on Cloud](https://www.google.com/url?q=https%3A%2F%2Fwww.springerprofessional.de%2Fen%2Fe-moc-an-efficient-secret-sharing-model-for-multimedia-on-cloud%2F18842864&sa=D&sntz=1&usg=AOvVaw1hFCm_2Qngfx76yRDeQUm5), *Springer International Conference on Deep Learning, Artificial Intelligence and Robotics, (***ICDLAIR’19***),*December 2019, pp. 246-260, DOI: 10.1007/978-3-030-67187-7\_26. MNIT Jaipur (India).  [C030] Avnish Kumar, Kaustubh Purohit, **Krishan Kumar,** [Stock Price Prediction Using Recurrent Neural Network and Long Short-Term Memory](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-3-030-67187-7_17&sa=D&sntz=1&usg=AOvVaw0uofnnDLAxPlKm1QSL_UbG), *Springer International Conference on Deep Learning, Artificial Intelligence and Robotics, (***ICDLAIR’19***),*December 2019, pp. 153-160, DOI: 10.1007/978-3-030-67187-7\_17. MNIT Jaipur (India).  [C029] Ishani Dabral, Maheep Singh, **Krishan Kumar,** [Cancer Detection Using Convolutional Neural Network](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-3-030-67187-7_30&sa=D&sntz=1&usg=AOvVaw0ojLTWZxehC5xpbzU8xEnX), *Springer International Conference on Deep Learning, Artificial Intelligence and Robotics, (***ICDLAIR’19***),*December 2019, pp. 290-298, DOI: 10.1007/978-3-030-67187-7\_30. MNIT Jaipur (India).  [C028] Shreya Kumari, Maheep Singh, **Krishan Kumar,** [Prediction of Liver Disease Using Grouping of Machine Learning Classifiers](https://www.google.com/url?q=https%3A%2F%2Flink.springer.com%2Fchapter%2F10.1007%2F978-3-030-67187-7_35&sa=D&sntz=1&usg=AOvVaw0gLqbbpT_6B1Hy9k_YrxR1), *Springer International Conference on Deep Learning, Artificial Intelligence and Robotics, (***ICDLAIR’19***),*December 2019, pp. 339-349, DOI: 10.1007/978-3-030-67187-7\_35. MNIT Jaipur (India).  [C027] Sandeep Chand Kumain, Maheep Singh, Navjot Singh, **Krishan Kumar,** [An efficient Gaussian Noise Reduction Technique For Noisy Images using optimized filter approach](https://www.google.com/url?q=https%3A%2F%2Fieeexplore.ieee.org%2Fdocument%2F8703305&sa=D&sntz=1&usg=AOvVaw1fK2vcjKbOAQpGqQhxafqN), *1st IEEE International Conference on Secure Cyber Computing and Communications (***ICSCCC'18***),*December 2018, pp. 243-248, DOI: 10.1109/ICSCCC.2018.8703305. NIT Jalandhar (India).  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| **BOOK CHAPTERS (Scopus): 05** | | | | |
| [CH005] Alok Negi, **Krishan Kumar**, [Face Mask Detection in Real-Time Video Stream Using Deep Learning](https://www.google.com/url?q=https%3A%2F%2Fonlinelibrary.wiley.com%2Fdoi%2Fabs%2F10.1002%2F9781119818717.ch14&sa=D&sntz=1&usg=AOvVaw1UWcEDWTOyIXu5S8yzqhZe), *Computational Intelligence and Healthcare Informatics*, October 2021, pp. 255-268. DOI: 10.1002/9781119818717.ch14. ISBN: 9781119818687, Scrivener Publishing LLC.  [CH004] Alok Negi, **Krishan Kumar**, [Classification and Detection of Citrus Diseases Using Deep Learning](https://books.google.co.in/books?hl=en&lr=&id=40k2EAAAQBAJ&oi=fnd&pg=PA63&dq=Classification+and+Detection+of+Citrus+Diseases+Using+Deep+Learning&ots=XwwqdzDNTo&sig=DuGSHPk2wA6-JLXyM7l8i2m-bS0&redir_esc=y#v=onepage&q=Classification%20and%20Detection%20of%20Citrus%20Diseases%20Using%20Deep%20Learning&f=false),*Data Science and Its Applications,*October 2021, pp. 61-83. DOI: 10.1201/9781003102380-4. ISBN: 9781003102380, Chapman and Hall/CRC.  [CH003] Ajay B. Gadicha, Vrindra Beena Brijesh Gupta, Vijay B. Gadicha, **Krishan Kumar**, Mangesh M. Ghonge, [Multimode Approach of Data Encryption in Images Through Quantum Steganography](https://www.google.com/url?q=https%3A%2F%2Fwww.igi-global.com%2Fchapter%2Fmultimode-approach-of-data-encryption-in-images-through-quantum-steganography%2F279999&sa=D&sntz=1&usg=AOvVaw12BecxQfOWchaTrGCKN4aR), *Multidisciplinary Approach to Modern Digital Steganography*, June 2021, pp. 99-124. DOI: 10.4018/978-1-7998-7160-6.ch005. ISBN: 9781799871606, IGI Global  [CH002] Alok Negi, **Krishan Kumar**, Prachi Chauhan, [Deep Learning‐Based Image Classifier for Malaria Cell Detection](https://www.google.com/url?q=https%3A%2F%2Fonlinelibrary.wiley.com%2Fdoi%2Fabs%2F10.1002%2F9781119792611.ch12&sa=D&sntz=1&usg=AOvVaw1I-Bcj7zVkDt43Yc-UZF-j), *Machine Learning for Healthcare Applications*, April 2021, pp. 187-197. DOI: 10.1002/9781119792611.ch12. ISBN: 9781119791812, John Wiley & Sons, Inc.  [CH001] Alok Negi, **Krishan Kumar**, Prachi Chauhan, [Deep Neural Network‐Based Multi‐Class Image Classification for Plant Diseases](https://www.google.com/url?q=https%3A%2F%2Fonlinelibrary.wiley.com%2Fdoi%2Fabs%2F10.1002%2F9781119769231.ch6&sa=D&sntz=1&usg=AOvVaw1KHCyxYgN_nWB2IJPmWJBT), *Agricultural Informatics: Automation Using the IoT and Machine Learning*, March 2021, pp. 117-129. DOI: 10.1002/9781119769231.ch6. ISBN: 9781119768845, John Wiley & Sons, Inc. | | | | |
| **INVITED TALKS AND OUTREACH ACTIVITIES** | | | | |
| [T013] Delivered talk on Multimedia Analysis using Deep Learning and its Applications in Online FDP on *Computer Vision and Image Processing* at SKIT, Jaipur, February 03, 2022.  [T012] Delivered Expert Talk on Cloud Computing and its Current Trends in Online Webinar at VIT Bhopal, December 18, 2021.  [T011] Delivered Expert Talk on How to publish your book with an academic publisher in One-Week Faculty Development Program on *Research Prospects in Nursing* at Galgotia University, Greater Noida, September 2021.  [T010] Delivered Expert Talk on Role of AI Techniques in Digital Era in Online Summit on *AI and Multidisciplinary Research: Opportunities and Challenges* at G L BITM, Greater Noida, July 2021.  [T009] Delivered Keynote speech on Applications of Deep Learning in Digital Era in Online AICTE sponsored STTP on *AI and Deep Learning* at MIET, Jammu, July 2021.  [T008] Delivered Keynote speech on Key Observations to Publish the Research work in Reputed Journals in One Week Faculty Development Program (FDP) on *Research Manuscript Writing and Publication in Reputed Journals* at SVIM, Indore, April 2021.  [T007] Delivered Keynote speech on Role of Open Source tools in Teaching-Learning Process in ISTE sponsored Two Week STTP on *Pedagogy For Effective Use of ICT In Engineering Education* at P. R. PCEM, Amravati, April 2021.  [T006] Delivered Hands-on session on Python and its applications in Computer Vision in Virtual International Workshop on *Pandemic and Socio-Economic Determinants: The Uses, Mathematics and Computations behind the Modeling to inform Decision Makers* at NIT Uttarakhand, February 2021.  [T005] Delivered Keynote Speech on Role of Deep Learning in Multimedia in Online AICTE sponsored STTP on *AI and Deep Learning* MIET, Jammu on February 2021.  [T004] Delivered Keynote Speech on Role of Deep Learning in Multimedia in Online *International Conference on Science & Technology (ICOST -2021)*, January 2021.  [T003] Delivered Expert Talks on UNIX, LINUX & Basics of Computer Programming: C/C++ in Online Six-day TEQIP-III sponsored STTP on *Computational Techniques and Programming*, NIT Uttarakhand, July 2020.  [T002] Delivered Hands-on session on Deployment of Private Cloud using Openstack in *Virtualization and Networking Workshop* at VNIT Nagpur, December 2017.  [T001] Delivered invited talk on Introduction to Docker Container at Shippable Bangalore, January 2014. | | | | |
| **COURSES TAUGHT** | | | | |
| * **Undergraduate Level:** * Data Structures * Design and Analysis of Algorithms * Operating Systems * Machine Learning * Data Science * **Postgraduate Level:** * Introduction to Virtualization and Cloud Computing, * Real-Time Systems * Adavanced Data Structures and Algorithms * Cloud Enabled Technologies * Deep Learning | | | | |
| **ADMINISTRATIVE RESPONSIBILITIES** | | | | |
| * **Coordinator**- Placement and Training Programme (PTP): March 01, 2022 to till date. * **Head-** Department of Computer Science & Engineering (CSE): March 14, 2019 to February 28, 2022. * **Member-** Startup (Innovation and Incubation): December 08, 2020 to till date. * **Member:** Advisory Committee on Faculty Recruitment: March 14, 2019 to February 28, 2022. * **Member:** Institute Level Purchase Committee: March 14, 2019 to February 28, 2022. * **Member:** Institute Level Library Committee: March 14, 2019 to February 28, 2022. * **Member:** Senate: March 14, 2019 to February 28, 2022. * **Member:** Departmental Purchase Committee: March 14, 2019 to February 28, 2022. * **Member:** Departmental Postgraduate Committtee: March 14, 2019 to February 28, 2022. * **Chairman:** Departmental Timetable and Examination Committtee: July 14, 2019 to till date. * **Chairman:** Departmental Faculty Board: March 14, 2019 to February 28, 2022. * **Chairman:** Ph. D. Admission Committee: March 14, 2019 to February 28, 2022. * **Coordinator:** Innovation Club, Department of CSE: October 10, 2018 to November 06, 2020. * **Coordinator:** Campus Wide Networking, CCTV Surveillance: July 12, 2018 to June 02, 2019. * **Coordinator:** Closed User Group & Telephone: July 12, 2018 to June 02, 2019. * **Faculty In-charge-** Departmental Cleanliness & Sanitation: February 09, 2016 to July 11, 2018. * **Faculty In-charge-** IT Services: July 18, 2016 to July 11, 2018. * **Faculty Advisor-** CSE B. Tech. Batch 2013-2017 (01-30) & 2017-2021 (01-30) | | | | |
| **REFERENCES** | | | | |
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I declare that the information given above is true to the best of my knowledge.

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