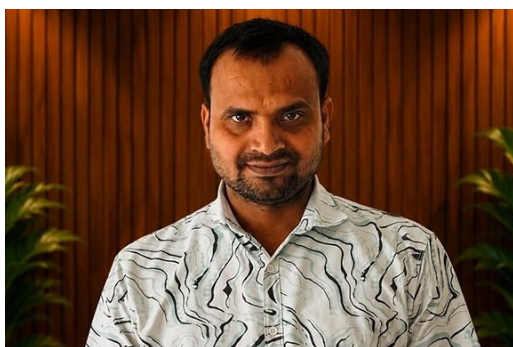




Dr. Sachin Kumar is an academician, presently working as Associate Professor of CSE at IILM University, Gurugram. He has a rich and diverse experience spanning over 10+ years across research, and academia. His primary research interests lie in Machine Learning, Deep Learning & Cloud Computing. As a researcher & author, he has published extensively, contributing to various prestigious journals listed in Scopus & UGC Care; edited & authored multiple book chapters that address image classifications & different energy efficient models and serve as vital resources for students & academicians alike.

Educational Qualification

- Ph.D., Computer Applications, Veer Bahadur Singh Purvanchal University (**NAAC A+ State University-2024**) in 2024, Jaunpur, Uttar Pradesh (2024)
 - Topic: Energy Efficient Model For Cloud Computing (Full Time)
- M.Tech, Computer Science, BabaSaheb Bhimrao Ambedkar University (**NAAC A++ Central University-2023, NIRF-33-2024**), Lucknow, India in 2016. (1st Division)
- B.Tech in Computer Science & Engineering from AKTU (**NAAC A State University**), Lucknow, India in 2011. (1st Division)
- Diploma, Statistics & Computing, Banaras Hindu University (**NAAC A Central University-2024, NIRF-5-2024**), (1st Division).

Research and Scholarly Publication

Research Paper Published		
SN	TITLE	PUBLISHER
1	Kumar, S., Pal, S., Singh, V. P., & Jaiswal, P. (2023). Energy-efficient model “Inception V3 based on deep convolutional neural network” using cloud platform for detection of COVID-19 infected patients. <i>Epidemiologic Methods</i> , 12(1), 20210046. Link: https://www.degruyter.com/document/doi/10.1515/em-2021-0046/html	EPIDEMIOLOGIC METHODS-2023
2	Kumar, S., Pal, S., Singh, V. P., & Jaiswal, P. (2023). Performance evaluation of ResNet model for classification of tomato plant disease. <i>Epidemiologic Methods</i> , 12(1), 20210044. Link: https://www.degruyter.com/document/doi/10.1515/em-2021-0044/html	EPIDEMIOLOGIC METHODS-2023
3	Kumar, S., Singh, V. P., Pal, S., & Jaiswal, P. (2023). Energy-efficient model “DenseNet201 based on deep convolutional neural network” using cloud platform for detection of COVID-19 infected patients. <i>Epidemiologic Methods</i> , 12(1), 20210047. Link: https://www.degruyter.com/document/doi/10.1515/em-2021-0047/html?lang=en&srsId=AfmBOopL DXF66JBzAXsvBUr4Zn7hnWDdA5t2rWdcjhrvJThidSGfKWt-	EPIDEMIOLOGIC METHODS-2023

4	Kumar, S., Pal, S., Singh, V. P., & SinghPriya, S. K. S. S. K. (2022). COVID-19 Disease Detection using Pre-Trained Deep Convolutional Neural Network (GoogleNet) on Cloud Platform. <i>NeuroQuantology</i>, 20(9), 1989. Link: https://www.proquest.com/openview/78cb76965d5cbc493aa4b6a131f2e9a7/1?pq-origsite=gscholar&cbl=2035897	NEUROQUANTOLOGY-2023
5	Kumar, S., Shahi, A. K., Patel, K., & Jaiswal, P. (2022). Energy and Cost Efficient Pre-trained Convolutional Neural Network (ResNet-50) Model for Tomato Disease Recognition Using Cloud Platform. <i>NeuroQuantology</i>, 20(9), 2009. Link: https://www.proquest.com/openview/4032d357f842ef59d2d4dae8cd927fb8/1?pq-origsite=gscholar&cbl=2035897	NEUROQUANTOLOGY-2023
6	Kumar, S., Solanki, S., Srivastav, V., Bhattacharya, A., Roy, P., Laha, S. R., & Nayak, D. S. K. (2025). Boosted Query Expansion for Agricultural Decision Support: A Hybrid Framework Combining Case-Based Reasoning, Fuzzification, and Machine Learning. <i>Tikrit Journal of Engineering Sciences</i>, 32(4), 1-11. Link: https://tj-es.com/ojs/index.php/tjes/article/view/2615	Tirkit Journal of Engineering Sciences- 2025
7	Development of a smart greenhouse integrated with advanced technologies for real-time monitoring and automated control of environmental parameters Link: https://www.researchgate.net/publication/396334605_Development_of_a_smart_greenhouse_integrated_with_advanced_technologies_for_real-time_monitoring_and_automated_control_of_environmental_parameters	Journal of Dalian University of Technology 2025
8	Kumar, S., Solanki, S., Verma, S., A Survey of Techniques for Improving Information Retrieval through Query Expansion. Link: https://www.researchgate.net/profile/Sachin-Kumar-208/publication/390577582_Information_Technology_and_Computer_Science/links/67f4dacb49e91c0feae9f69e/Information-Technology-and-Computer-Science.pdf	International Journal of Information Technology and Computer Science (IJITCS)2025
9	Roy, P., Solanki, S., Kumar, S., Mondal, S., Chakraborty, S., Rajak, B., ... & Biswas, A. (2025). An AI enhanced IoT driven localization system (AIILS) for underground mine environments through implementation of bluetooth low energy (BLE). <i>Journal of The Institution of Engineers (India): Series D</i>, 1-19. LINK: https://link.springer.com/article/10.1007/s40033-025-00918-6	<u>Journal of The Institution of Engineers (India): Series D</u> (2025)
10	Samriya, J. K., Kumar, S., & Singh, S. (2016). Efficient K-means Clustering for Healthcare Data. <i>Advanced Journal of Computer Science and Engineering (AJCST)</i>, 4(2), 1-7.	Advanced Journal of Computer

	Link: https://www.researchgate.net/profile/Jitendra-Samriya/publication/330412404_EFFICIENT_K-MEANS_CLUSTERING_FOR_HEALTHCARE_DATA/links/5c3f0cc292851c22a378a523/EFFICIENT-K-MEANS-CLUSTERING-FOR-HEALTHCARE-DATA.pdf	Science and Engineering (AJCST)
11.	Singh, S., Kumar, S., & Samriya, J. K. Efficient Topology based Load balancing for Cloud Infrastructures. Link: https://www.researchgate.net/profile/Jitendra-Samriya/publication/330412470_Efficient_Topology_based_Load_balancing_for_Cloud_Infrastructures/links/5c3f0cfb92851c22a378a53c/Efficient-Topology-based-Load-balancing-for-Cloud-Infrastructures.pdf	Advanced Journal of Computer Science and Engineering (AJCST)
12	Kumar, S., Singh, S., & Samriya, J. K. APPLYING DYNAMIC VOLTAGE FREQUENCY SCALING (DVFS) FOR BALANCING ENERGY IN CLOUD DATACENTERS. Link: https://www.researchgate.net/profile/Jitendra-Samriya/publication/330412561_APPLYING_DYNAMIC_VOLTAGE_FREQUENCY_SCALING_DVFS_FOR_BALANCING_ENERGY_IN_CLOUD_DATACENTERS/links/5c3f0c8a92851c22a378a519/APPLYING-DYNAMIC-VOLTAGE-FREQUENCY-SCALING-DVFS-FOR-BALANCING-ENERGY-IN-CLOUD-DATACENTERS.pdf	Advanced Journal of Computer Science and Engineering (AJCST)
13	Sachin Kumar, Saurabh Pal, Satya Singh, Energy Efficient Model for Cloud Computing, The International journal of analytical and experimental modal analysis, Page No: 129-141, ISSN NO:0886-9367, DOI:18.0002.IJAEMA.2022.V14I02.200001.0156859616. Link: https://drive.google.com/file/d/16p042_AX18JjEhMmqGOwJBdF8BWhirP5/view	IJAEMA-2022
14	Sachin Kumar, Saurabh Pal, Sarika Srivastava, Vijendra Pratap Singh, Priya Jaiswal. Gold Price Forecasting In India Using Arima Model On Cloud Platform, International Journal of Creative Research Thoughts (IJCRT), Volume 11, Issue 8 August 2023 ISSN: 2320-2882, Page No (153-156). Link: https://www.researchgate.net/profile/Sachin-Kumar-208/publication/374294241_Gold_Price_Forecasting_In_India_Using_Arima_Model_On_Cloud_Platform/links/6583c7172468df72d3c0cd57/Gold-Price-Forecasting-In-India-Using-Arima-Model-On-Cloud-Platform.pdf?origin=scientificContributions	International Journal of Creative Research Thoughts (IJCRT)-2023
15	Kumar, S., Pandey, A. K., Srivastava, P. K., Sharma, K., Pal, N., & Patidar, P. K. (2025, March). SmartCocoa: Leveraging Deep Learning for Cocoa Leaf Disease Identification. In <i>International Conference on Computing and Communication Systems for Industrial Applications</i> (pp. 563-571). Singapore: Springer Nature Singapore. LINK: https://link.springer.com/chapter/10.1007/978-981-96-8350-5_39	2026
<u>16</u>	Kumar, S., Sharma, A. K., Srivastava, S., Tiwari, V., Patidar, P. K., & Rai, S. (2025, May). Automated COCOA Disease Detection Using Convolutional Neural Networks: A Case Study of VSD and Other Pathogens. In <i>Proceedings of the International Conference on Recent Advancement and Modernization in</i>	RAMSITA-2025

	<i>Sustainable Intelligent Technologies & Applications (RAMSITA-2025)</i> (p. 361). Springer Nature. LINK: https://books.google.co.in/books?hl=en&lr=&id=q-RfEQAAQBAJ&oi=fnd&pg=PA361&dq=Automated+COCOA+Disease+Detection+Using+Convolutional+Neural+Networks:+A+Case+Study+of+VSD+and+Other+Pathogens&ots=bPA-PEXN2l&sig=-uDC8vWbXhSTyC5qFPAnJtrX2RA&redir_esc=y#v=onepage&q=Automated%20COCOA%20Disease%20Detection%20Using%20Convolutional%20Neural%20Networks%3A%20A%20Case%20Study%20of%20VSD%20and%20Other%20Pathogens&f=false	
<u>17</u>	Kumar, S., Ranjan, A., Srivastava, P. K., Dewan, A., Patidar, P. K., & Tiwari, V. (2024, November). Optimizing Image Classification with Deep Learning: A Performance-Based Approach. In <i>Proceedings of the 3rd International Conference on Optimization Techniques in the Field of Engineering (ICOFE-2024)</i>. LINK: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5091614	(ICOFE-2024)
<u>18</u>	Kumar, S., Singh, R. P., Vir, R., Saha, T. K., Chaturvedi, P., & Patidar, P. K. (2024, November). Task Consolidation Algorithm to Improve the Efficiency of Cloud Computing Environment. In <i>Proceedings of the 3rd International Conference on Optimization Techniques in the Field of Engineering (ICOFE-2024)</i>. LINK: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5091106	(ICOFE-2024)
<u>19</u>	Kumar, S., Pal, S., Singh, S., Singh, V. P., Singh, D., Saha, T. K., & Jaiswal, P. (2022, November). Energy Efficient Model for Balancing Energy in Cloud Datacenters Using Dynamic Voltage Frequency Scaling (DVFS) Technique. In <i>Proceedings of Third Doctoral Symposium on Computational Intelligence: DoSCI 2022</i> (pp. 533-540). Singapore: Springer Nature Singapore. Link: https://link.springer.com/chapter/10.1007/978-981-19-3148-2_45	DoSCI-2022 Springer Nature Singapore
<u>20</u>	Solanki, S., Verma, S., Roy, P., Kumar, S., Banerjee, R., & Prasad, A. (2025, March). Enhancing query expansion with ML-SSO: a machine learning, semantic, statistical, and ontological framework. In <i>2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI)</i> (Vol. 3, pp. 1-7). IEEE. Link: https://ieeexplore.ieee.org/abstract/document/10984858	IEEE- 2025
<u>21</u>	Kumar, S., Dewan, A., Solanki, S., Dave, J. D., Patidar, P. K., & Lilhare, S. (2025, March). Automated Brain Tumor Identification in MRI Scans Using State-of-the-Art Deep Learning Models. In <i>2025 3rd International Conference on Disruptive Technologies (ICDT)</i> (pp. 655-659). IEEE. Link: https://ieeexplore.ieee.org/abstract/document/10986532	IEEE- 2025

REWIEVER

22	Patel, K., Kumar, S. , Singh, V. P., Singh, S. K., Saha, T. K., & Jaiswal, P. (2022, December). To Detect Spammer from Image-Based Spam E-mail through Adjacent-Duplicate Technique. In <i>2022 International Conference on Knowledge Engineering and Communication Systems (ICKES)</i> (pp. 1-6). IEEE. Link: https://ieeexplore.ieee.org/abstract/document/10060002	IEEE ICKECS-2023
23	Kumar, S. , Pal, S., Singh, S., & Jaiswal, P. (2023, April). Energy-Efficient Model (ARIMA) for Forecasting of Modal Price of Cod Pea Using Cloud Platform. In <i>International Conference on IoT, Intelligent Computing and Security: Select Proceedings of IICS 2021</i> (pp. 449-461). Singapore: Springer Nature Singapore. Link: https://link.springer.com/chapter/10.1007/978-981-19-8136-4_37	IICS -2021 Springer Nature Singapore
24	Kumar, S. , Pal, S., Singh, S., Singh, R. P., Singh, S. K., & Jaiswal, P. (2022, November). An Energy & Cost-Efficient Task Consolidation Algorithm for Cloud Computing Systems. In <i>International Conference on Advancements in Smart Computing and Information Security</i> (pp. 446-454). Cham: Springer Nature Switzerland. Link: https://link.springer.com/chapter/10.1007/978-3-031-23092-9_35	ASCIS-2022 Springer Nature Switzerland.
25	Kumar, S. , Singh, V. P., Srivastava, S., Singh, R. P., & Jaiswal, P. (2023, December). Price Forecasting of Potato Using ARIMA Model on Cloud Platform. In <i>International Conference on Advancements in Smart Computing and Information Security</i> (pp. 52-70). Cham: Springer Nature Switzerland. Link: https://link.springer.com/chapter/10.1007/978-3-031-58604-0_4	ASCIS-2023 Springer Nature Switzerland.
26	Kumar, S. , Singh, R. P., Vir, R., Saha, T. K., Chaturvedi, P., & Patidar, P. K. (2024, November). Task Consolidation Algorithm to Improve the Efficiency of Cloud Computing Environment. In <i>Proceedings of the 3rd International Conference on Optimization Techniques in the Field of Engineering (ICOFE-2024)</i> . Link: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5091106	ASCIS-2024 SSRN
27	Kumar, S. , Saha, T. K., Singh, P., Mangotra, V., Patidar, P. K., & Pal, N. (2025). Deep learning approaches for image classification: Performance analysis and optimization. In <i>Smart Computing and Communication for Sustainable Convergence</i> (pp. 258-265). CRC Press. Link: https://www.taylorfrancis.com/chapters/edit/10.1201/9781003637530-38/deep-learning-approaches-image-classification-performance-analysis-optimization-sachin-kumar-tapash-kumar-saha-parvinder-singh-vikas-mangotra-praveen-kumar-patidar-nitin-pal	ISCCSC2024 SSRN
BOOK CHAPTERS		
1	Detection of Tomato Disease by Using Convolutional Neural Network Link: https://www.amazon.in/Emerging-Trends-Engineering-Science-Management/dp/B0BT8DVKR6	IESM 2023
2	Deep Learning Technique for Classification of Medical Images on Cloud Platform Link: https://www.amazon.in/Emerging-Trends-Engineering-Science-Management/dp/B0BT8DVKR6	SHEAT
3	Education Sector an application of IoT Link: https://www.amazon.in/Emerging-Trends-Engineering-Science-Management/dp/B0BT8DVKR6	SHEAT

4	MIGRATION OF VIRTUAL MACHINES USING CLOUD COMPUTING, ISBN: 978-81-956917-0-8, Page No.(62-64). https://ashokainstitute.com/international-conference-2022	IESM 2023
5	Efficient Machine Learning Technique for Credit Card Fraud Detection, International Conference on Innovative Practices in Engineering Sciences and Management (IESM-2022), ISBN: 978-81-956917-0-8, Page No.(44-47). Link: https://ashokainstitute.com/international-conference-2022	IESM 2023
6	Brain Tumor Detection from MRI Images Using Deep Learning Techniques, International Conference on Innovative Practices in Engineering Sciences and Management (IESM-2022), ISBN: 978-81-956917-0-8, Page No. (319-322). Link: https://ashokainstitute.com/international-conference-2022	IESM 2023
7	Application of IoT in Education Sector, International Conference on Innovative Practices in Engineering Sciences and Management (IESM-2022), ISBN: 978-81-956917-0-8, Page No. (53-56). Link: https://ashokainstitute.com/international-conference-2022	IESM 2023

SR. NO	NAME	DATE	LOCATION
1	SNCS-2024	JULY 2024	SCOPUS INDEXED JOURNAL
2	NHIB-D-25-00300	JUNE 2025	SCOPUS INDEXED JOURNAL
3	NHIB-D-25-00300	AUGUST 2025	SCOPUS INDEXED JOURNAL
4	IEEE-IC3IT-2025	24-25 OCT 2025	Mysuru Royal Institute of Technology, Mandya, India
5	IEEE-ICML-ALGO-2025	29-30 AUG 2025	Chitkara University, Himachal Pradesh,
6	IEEE-IACIS	22-23 AUG 2025	Navkis College of Enggi. Karnataka
7	IEEE-ICDSNS-2025	25-26 July 2025	Kalptaru Institute of Technology
8	IEEE-NMITCON 2025	1-2 AUGUST 2025	Nitte Meenakshi Institute of Technology, Bengaluru,
9	IEEE-ICDCECE-2025	25-26 APRIL 2025	Ballari Institute of Technology & management
10	SPRINGER-GreenAI-2025	3-4 APRIL 2025	GITAM (Deemed to be University), Hyderabad
11	IEEE-ICICACS-2025	21-22 FEB 2025	SIR M. VISHWESHVARAIYA COLLEGE OF ENGINEERING, RAICHUR

12	IEEE-ICISCN-2025	24-25 JAN 2025	LINGRAJ APPA ENGINEERING COLLEGE, BIDAR
13	IEEE-ICMNWC 2024	04-05 DEC 2024	SHRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU
14	IEEE-ICIICS-2024	22-23 NOV 2024	SHARNBASVA UNIVERSITY, KALABURAGI
15	ICAN-2024	24-25 SEP 2024	CHITKARA UNIVERSITY
16	2 nd IEEE-International Conference on Data Science and Information System (ICDSIS-2024)	17-18 MAY 2024	MALNAD COLLEGE OF ENGINEERING
17	IEEE-International Conference on Distributed Computing and Optimization Technique (ICDCOT-2024)	15-16 MARCH 2024	SJB INSTITUTE OF TECHNOLOGY
18	2 nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)	9-10 AUGUST 2024	NITTE MINAKSHI INSTITUTE OF TECHNOLOGY
19	21 ST IEEE CISCON-2024	2-3 AUGUST 2024	MIT. MAHE MANIPAL
20	SSITCON @SSIT Tumkur IEEE-2024	18-19 OCT 2023	Sri Siddhartha Institute of Technology Tumkur
21	IEEE International Conference on Signal Processing and Advance Research in Computing	12-13 Sep 2024	Amity University Lucknow Campus
22	ICIICS-2024 IEEE International Conference	22-23 NOV 2024	SARAN BASVA UNIVERSITY
23	ICMNWC-2024 IEEE International Conference	04-05 DEC 2024	SHRI SIDDHARTHA INSTITUTE OF TECHNOLOGY-BANGLORE

EXPERT TALK:

SN	DATE	TOPIC	ORGANIZATION	PLACE
1	26-28 Dec 2024	Integrating Machine Learning in Biomedical and Agricultural Research: Enhancing Precision and Productivity	Ashoka Institute of Technology & Management-Varanasi	Varanasi

2	23-24 March 2022	Workshop On Machine Learning & Wireless Sensor Networks	Aryamahila P.G College-	Varanasi
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CONFERENCE PRESENTED		
SN	TITLE	ORGANIZER
1	Energy-Efficient Model “DenseNet201 Based on Deep Convolutional Neural Network” Using Cloud Platform for Detection of COVID-19 Infected Patients	IIT-BHU-2023
2	Deep Learning Technique for Classification of Medical Images on Cloud Platform	ETESM-2023
3	Education Sector an application of IoT	ETESM-2023
4	Detection of Tomato Disease by Using Convolutional Neural Network	ETESM-2023
5	Price Forecasting of Gold in India	BECON-2023
6	Energy Efficient Model (ARIMA) for Forecasting of Modal Price of Cod Pea Using Cloud Platform	IICS -2021(SCOPUS INDEXED)
7	Energy Efficient Model for Balancing Energy in Cloud Datacenters Using Dynamic Voltage Frequency Scaling (DVFS) Technique	DoSCI-2022(SCOPUS INDEXED)
8	Energy and Cost Efficient Model for Saving Power in Cloud	ICRTETM-2022
9	Task Consolidation Technique for Cloud Computing	ASCIS-2022
10	Covid-19 Disease Detection Using Pre-Trained Deep Convolutional Neural Network (GoogleNet) on Cloud Platform	RCOEM-2022
11	Energy & Cost Efficient Pre-Trained Convolutional Neural Network(ResNet-50) for Tomato Disease Recognition Using Cloud Platform	RCOEM-2022
12	Brain Tumor Detection Using Deep Learning Technique	IESM-2022
13	Virtual Machine Migration Using Cloud Computing	IESM-2022
14	Application of IOT in Education Sector	IESM-2022
15	Machine Learning Technique For Fraud Detection	IESM-2022

CONFERENCE ATTENDED		
SN	TITLE	ORGANIZER

1	MIGRATION OF VIRTUAL MACHINES	COTII(AMBALIKA INSTITUTE)
2	THE SIXTH SENSE TECHNOLOGY AND ITS VARIOUS THREATS	COTII(AMBALIKA INSTITUTE)
PATENT		
SN	TITLE	ORGANIZER
1	Teaching potential and difficulties with modern cloud computing in the digital humanities and in technical and professional communication	Department of Promotion of Industry and Internal Trades-India
2	Computing Device for Adaptive Data Management in IoT Systems	United Kingdom Design
3	AI Enabled Disease Detection Medical Device	INDIAN DESIGN