

Dr. Anil Kumar Sagar

Address: Flat No 603, Tower 08 Unitech Horizon, PI2, Greater Noida, U.P

Mobile: 9412163839, 7906839179

Email: aksagar22@gmail.com

Present Status

- **Professor in** Department of Computer Science and Engineering, Sharda University, Greater Noida (**Feb 2020** – till date)
- **Dy Director, Program Accreditation**, Sharda University Greater Noida
- **Advisor, Learning Resource centre**, Sharda University Greater Noida
- **Digi Shakti Nodal Officer**, Sharda University
- **Member Board of Studies**, Department of CSE, Sharda University

Educational Qualifications

- **Ph.D.** in Computer Science and Technology, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India (Feb 2015)
- **NET Qualified** (June 2012)
- **M. Tech** in Computer Science, JSSATE Noida (2007, 8.83 CPI)
- **B.E** in Computer Science & Engineering, G. B. Pant Engineering College Pauri-Garhwal, UK, India (1999, 72.2% Marks)

Academic Experience

- **Deputy Director Programme Accreditation**, Sharda University Greater Noida
- **Head Of Department**, Dept of CSE Sharda University Greater Noida
- **Professor & Dean Academics**, RKGIT (Nov 2018 - Feb 2020)
- **Professor**, School of Computing Sciences and Engineering, Galgotias University, Greater Noida (July 2017 - Nov 2018)
- **Associate Professor**, Galgotias University, Greater Noida (July 2016 - June 2017)
- **Assistant Professor**, Galgotias University, Greater Noida (April 2014 - June 2016)
- **Assistant Professor**, Dept. of Computer Science and Engineering, Anand Engineering College, Agra (Feb 2007 - Aug 2010)
- **Sr. Lecturer**, Dept. of Computer Science and Engineering, Anand Engineering College, Agra (March 2006 - Feb 2007)
- **Lecturer**, Dept. of Computer Science and Engineering, Anand Engineering College, Agra (Aug 2000 - Feb 2006)

Administrative Experience

- Member Proctorial Board, RKGIT Ghaziabad
- Coordinator, SIH-2019, RKGIT Ghaziabad
- NBA Coordinator, SCSE, Galgotias University
- Division Chair, Cyber and Information Security, Dept. of CSE, Galgotias University
- Member BOS, Galgotias University
- WEB SIM Coordinator, Galgotias University
- Organizing Member, ICCCA-2016, Galgotias University
- Organizing Secretary, ICCCA-2017, Galgotias University
- Timetable Coordinator, SCSE, Galgotias University
- Examination Coordinator, SCSE, Galgotias University
- Course Coordinator and Lab Coordinator (ABET format)
- Experience with OBE, NAAC, and NBA Accreditation Process
- Coordinator, Dept. of Computer Science and Engineering, AEC Agra
- Examination Coordinator, Dept. of CSE, AEC Agra
- Timetable Coordinator, AEC Agra
- Nodal Officer (Coordinator), UP State Entrance Examination
- Flying Squad Member, Examination of UP Tech University, Lucknow
- Officer in Charge, Server Room, Anand Engineering College, Agra

Membership

- Member of IEEE, CSI
- Reviewer for Wireless Personal Communication (Springer), IGI Global
- PC Member, ICCCA 2016, ICCCA 2017, GUCON 2018, ICACCCN 2018

Conferences and Workshops Organized

- FDP on Python Programming with Industry Perspective, RKGIT Ghaziabad (Dec 2019)
- FDP on IoT and Machine Learning, RKGIT Ghaziabad (May 2019)
- IEEE International Conference on Computing, Communication & Automation (ICCCA-2016), Galgotias University
- IEEE International Conference on Computing, Communication & Automation (ICCCA-2017), Galgotias University
- Workshop on “C Programming Language”, Galgotias University (Feb 2015)
- International Conference (ETCITES-09), AEC Agra (2009)
- National Conference, Anand Engineering College, Agra (2004)
- Expert talks at JNU New Delhi (2018)

Conferences, Refresher Courses, and Staff Development Programs Attended

- National Instructional Workshop on Cryptology, JNU New Delhi (July 2020)
- Faculty Development Training on Data Science, Image Processing & Deep Learning Applications, Barkatullah University, Bhopal (June 2020)

- Faculty Development Training on Machine Learning and its Application using Python, Ajay Kumar Garg Engineering College, Ghaziabad (July 2020)
- FDP on Python Programming with Industry Perspective, RKGIT Ghaziabad (Dec 2019)
- Faculty Development Training on Outcome Based Education, Galgotias University (Jan 2018)
- Expert Lectures on Cyber Security, Lecture Recording, and Writing Research Proposals, Galgotias University
- Workshop on Intellectual Property Rights, World IP Week (April 2017)
- AICTE Staff Development Program on Advanced Computing Technologies, Ambedkar Institute of Advanced Communication Technologies & Research, Delhi (Jan 2012)
- Infosys Trained the Teacher Program, Infosys Campus, Chandigarh (Aug 2015)
- Quancave Conference on Cloud Computing, DEI Agra (June 2007)
- Oracle Training Program, Oracle India Pvt. Ltd., New Delhi (May 2005)

Subjects Taught

- Big Data Analytics
- Artificial Intelligence
- Data Mining
- Database Management System
- Data Structure
- Computer Networking
- Data Communication
- Network Security
- Cryptography
- C Programming

Software Knowledge

- Programming Languages: Python, C
- RDBMS: SQL/PLSQL
- Tools: HIVE, PIG, HADOOP

Research / Project Supervision

Ph.D. Students

- Dharm Raj
Title: Quality of Service Aware Handover Techniques for Internet of Vehicles
Status: Completed , November 2025
- Ms. Karamjeet Kaur
Title: Accelerating the Performance of Sequence Alignment Using GPU
Status: Completed , April 2024
- Surekha M
Title: Robust Adversarial Attacks and Defense Strategies on Machine Learning Techniques
Status: Completed, April 2026
- Anurag Gupta
Title: Design and Development of a Trust-Based Model for Vehicular Ad-Hoc Networks
Status: Ongoing (Ph.D.)

Awards, Prizes, and Certificates

- Best Teacher Award for Outstanding Performance in the Academic Year 2006-07 and 2007-08, Sharda Group of Institutions

Publications

Sagar, A.K. and Lobiyal, D.K., 2015. Fault tolerant coverage and connectivity in presence of channel randomness. The Scientific World Journal, SCIE. Impact Factor 1.730.

Sagar, A.K. and Lobiyal, D.K., 2013. Mobility based energy efficient coverage hole maintenance for wireless sensor networks. In: Springer Berlin Heidelberg, Quality, Reliability, Security and Robustness in Heterogeneous Networks. pp. 115-127.

Sagar, A.K. and Lobiyal, D.K., 2014. A multi-objective optimization approach for lifetime and coverage problem in wireless sensor networks. In: Springer India, Advances in Intelligent Systems and Computing. pp. 343-350.

Sagar, A.K. and Lobiyal, D.K., 2014. Coverage and lifetime maximization of wireless sensor network with multi-objective evolutionary algorithm. International Journal of Scientific & Engineering Research, 5(6), pp. 1194-1203.

Sagar, A.K. and Lobiyal, D.K., 2015. Probabilistic intrusion detection in randomly deployed wireless sensor networks. Wireless Personal Communications, Springer, 82(4), pp. 1017-1037.

Sagar, A.K., Singh, V.K. and Sharma, V., 2016. Hybrid genetic algorithm based technique to maximize the network lifetime in WSN. In: ICCCA-2016, Galgotias University. ISBN: 978-1-5090-1666-2.

Sagar, A.K., Dixit, M. and Kumar, R., 2016. VANET: Architecture, research issues, routing protocols, and its application. In: ICCCA-2016, Galgotias University. ISBN: 978-1-5090-1666-2.

Sagar, A.K., Singh, G.K. and Rishikesh, 2017. Comprehensive survey of various routing attacks in MANETS. International Journal of Current Research, 9(4), pp. 51035-51040.

Yadav, L., Kumar, S., Sagar, A.K. and Sahana, S., 2018. Architecture, applications, and security for IoV: A survey. In: ICACCCN 2018.

Sagar, A.K. and Shivangi, 2018. QoS-aware WSN for health monitoring: A review. *Computer Science Review*, Elsevier. (Under Review)

Sagar, A.K., Shivangi and Kumar, A., 2020. Energy-aware WBAN for health monitoring using critical data routing (CDR). *Wireless Personal Communication*, Springer.

Ahmad, S., Singh, P. and Sagar, A.K., 2018. A survey on big data analytics. In: ICACCCN 2018.

Rai, M., Yadav, A., Sagar, A.K. and Sagar, S., 2018. Security provision in VANETs using group-based key share algorithm. In: ICACCCN 2018.

Yadav, S., Rajput, N.K., Maheshwari, D. and Sagar, A.K., 2018. Secure and reliable routing protocols for VANETs. In: ICCCA 2018.

Singh, R., Kathuria, K. and Sagar, A.K., 2018. Secure routing protocols for wireless sensor networks. In: ICCCA 2018.

Kumar, R., Sagar, A.K. and Sharma, V., 2018. An improved AODV protocol to detect malicious nodes in Adhoc-network. In: ICACCCN 2018.

Sagar, A.K. and Chaudhary, A., 2020. Smart car system: Review. *Journal of Critical Reviews*, 7(1), pp. 711-717. DOI: 10.31838/jcr.07.03.137.

Sagar, A. K., Choudhary, A., & Khepra, S. (2020). Image classification using artificial neural networks. *Journal of Critical Reviews*, 7(9), 249-257.

Kesharwani, H., Nakarmi, A., Swaroop, J., Sagar, A.K., Das, S. and Das, I. (2023). Evaluation of Group Chats Using Exploratory Data Analysis. In: *Proceedings of ICACIT 2023, Advanced Computing and Intelligent Technologies*, p. 205.

Kaur, K., Sagar, A.K., Chakraborty, S. and Gupta, M.K. (2022). Performance Analysis of Multiple Sequence Alignment Algorithm using Swarm Intelligence. *NeuroQuantology*, 20(9), pp. 6780.

Nakarmi, A., Sagar, A.K., Musharaf, S. and Jahangir, H. (2022). A Framework for Lung Cancer Detection Using Machine Learning. In: *Proceedings of ICACIT 2022, Advanced Computing and Intelligent Technologies*.

Thapa, N., & Sagar, A.K. (2022). Prognostication in Retail World: Analysing Using Opinion Mining. In B. Unhelker, H.M. Pandey, & G. Raj (Eds.), *Applications of Artificial Intelligence and Machine Learning* (Lecture Notes in Electrical Engineering, vol 925). Springer, Singapore. https://doi.org/10.1007/978-981-19-4831-2_3Mood-Detection-Based Media Recommendation

Singh, P., Jain, D., Jain, A., Arvind, P., Pandey, A.K., Sagar, A.K., and Das, S., 2023. Mood-Detection-Based Media Recommendation. In: *Artificial Intelligence in Cyber-Physical Systems*, pp. 1-15. Springer. DOI: 10.1007/978-3-030-44289-5_1

Raj, D., & Sagar, A. K. (2022). Vehicular Ad-hoc Networks: A Review on Applications and Security. In *Proceedings of the International Conference on Advanced Communication and Intelligent Systems (ICACIS)*. Springer.

Gaur, I., Rai, S., Tiwari, U. and Sagar, A.K., 2024. IoT-Based Smart Home Automation. ICEEE 2023. Lecture Notes in Electrical Engineering, vol 1115. Singapore: Springer, pp.1-15. Available at: https://doi.org/10.1007/978-981-99-8661-3_28

Singh, B., Ahateshaam, M., Lahiri, A., & Sagar, A.K. (2024). Future of Cryptography in the Era of Quantum Computing. *International Journal of Advanced Research in Computer Science and Software Engineering*, 14(4), 123-135. DOI: 10.1234/ijarcsse.2024.56789.

Kumar, S., Musharaf, D., Musharaf, S., & Sagar, A.K. (2023). Use of Virtual Payment Hubs over Cryptocurrencies. In M. Sajid, A.K. Sagar, J. Singh, & O.I. Khalaf (Eds.), *Intelligent Techniques for Cyber-Physical Systems* (pp. 157-165). CRC Press.

Mehta, A.S., Singh, A. and Sagar, A.K., 2024. Vision Assist Glasses for Visually Impaired People. In: *2024 2nd International Conference on Networking and Communications (ICNWC)*, pp. 1-8. IEEE.

Surekha, M., Sagar, A.K., & Khemchandani, V. (2023). A Comprehensive Analysis of Poisoning Attack and Defence Strategies in Machine Learning Techniques. In *Proceedings of the IEEE International Conference on Computing, Power and Communication* (pp. 1-8). IEEE.

Surekha, M., Sagar, A.K., and Khemchandani, V. (2023). Adversarial Attack and Defense Mechanisms in Medical Imaging: A Comprehensive Review. *IEEE International Conference on Computing, Power and Communication (ICCP)*, 2023, pp. 1-6. doi:10.1109/ICCP56722.2023.10023568.

Kaur, K., Sagar, A.K., & Chakraborty, S. (2022). Accelerating the performance of sequence alignment using machine learning with RAPIDS enabled GPU. *Journal of Current Science and Technology*, 12(3), 462-481.

Qureshi, H., Sagar, A.K., Astya, R., & Shrivastava, G. (2021). Big Data Analytics for Smart Education. 2021 IEEE 6th International Conference on Computing, Communication and Security (ICCCS), 1-7.

Reddy, D.L.K., Negi, K., Soumya, D.R., Kumar, G.P., Sahana, S. and Sagar, A.K., 2024. Real-time face mask detection using CNN in Covid-19 aspect. In: *International Conference on Electrical and Electronics Engineering*. pp. 327-344.

Kumar, S., Musharaf, D., and Sagar, A.K., 2022. Comparative study of pre-trained models on cotton plant disease detection using transfer learning. In: *Advanced Computing and Intelligent Technologies: Proceedings of ICACIT 2022*. Cham: Springer, pp. 205-213. https://doi.org/10.1007/978-3-030-96308-8_18

Sharan, B., Sagar, A.K. and Rajak, N., 2024. Microstrip Planar Antennas for C-Band Wireless Applications. *International Journal of Experimental Research and Review*, 38, pp.147-153.

Kaur, K., Sagar, A.K., Chakraborty, S. and Gupta, M.K., 2024. Accelerating the performance of sequence classification using GPU based ensemble learning with extreme gradient boosting.

In: International Conference on Advances in Computing and Data Sciences. Cham: Springer, pp. 257-268. https://doi.org/10.1007/978-3-031-06986-3_21

Sharan, B., Sagar, A. K., & Chhabra, M. (2022). A review on edge-computing: challenges in security and privacy. *2022 International Conference on Applied Artificial Intelligence (ICAPAI)*, pp. 1280-1286. IEEE. <https://doi.org/10.1109/ICAPAI55359.2022.9793628>

Deepserish, B.K., Aryal, M., Chaudhary, B., Thapa, A., Shrivastava, G., & Sagar, A.K. (2022). PET-Droid: Android Malware Detection Using Static Analysis. *2022 4th International Conference on Advances in Computing, Communication, and Networking (ICAC3N)*, pp. 1-8. IEEE. <https://doi.org/10.1109/ICAC3N57150.2022.9993628>

Hassan, R., Sagar, A.K., & Banda, L. (2021). Future Internet of Things: A Framework for Next Generation Smart Cities. *2021 IEEE 6th International Conference on Computing, Communication, and Networking Technologies (ICCCNT)*, pp. 1-6. IEEE. <https://doi.org/10.1109/ICCCNT51525.2021.9569718>

Malik, A.M., Sagar, A.K., & Sahana, S. (2021). Prediction of cardiopathy using exploratory data analysis. *2021 IEEE 6th International Conference on Computing, Communication, and Automation (ICCCA)*, pp. 1-6. IEEE. <https://doi.org/10.1109/ICCCA52192.2021.9666241>

Sharan, B., Chhabra, M., & Sagar, A.K. (2022). State-of-the-art: Data Dissemination Techniques in Vehicular Ad-hoc Networks. *2022 9th International Conference on Computing for Sustainable Global Development (INDIACom)*, pp. 126-131. IEEE. <https://doi.org/10.23919/indiacom54597.2022.9763249>

Sagar, A. K., Banda, L., Sahana, S., Singh, K., & Singh, B. K. (2021). Optimizing quality of service for sensor enabled Internet of healthcare systems. *Neuroscience Informatics*, 1(3), 100010. <https://doi.org/10.1016/j.neuri.2021.100010>

Goswami, S., Sagar, A.K., Nand, P., & Khalaf, O.I. (2022). Time Series Analysis Using Stacked LSTM Model for Indian Stock Market. *2022 IEEE IAS Global Conference on Emerging Technologies (GlobConET)*, pp. 399-405. IEEE. <https://doi.org/10.1109/GlobConET53546.2022.9872386>

Chauhan, V., Negi, S., Jain, D., Singh, P., Sagar, A. K., & Sharma, A. K. (2022). Advancements in computing and innovative technologies in engineering. In *2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)* (pp. 18-23). IEEE. <https://doi.org/10.1109/ICACITE53722.2022.9823619>

Kaur, K., Chakraborty, S., & Sagar, A. K. (2024). *Unleashing a cascade of machine learning for turbocharged sequence alignment in discrete mathematical sciences using GPU*. *Journal of Discrete Mathematical Sciences & Cryptography*, 27(4), 1129–1138. <https://doi.org/10.47974/JDMSC-1968>

S. Upadhyay, A. K. Sagar and N. R. Roy, "Stacked Ensemble Learning with Meta-Learners for Accurate Detection of Coronary Artery Disease," *2025 7th International Conference on Information Systems and Computer Networks (ISCON)*, Mathura, India, 2025, pp. 1-4, doi: 10.1109/ISCON65210.2025.11341250.

Gupta, A.K., Sagar, A.K., Singh, V.K. (2026). Evasion Attacks on Image Classification

Models: A Comprehensive Review of Strategies and Defense Mechanisms. In: Das, S., Paprzycki, M., Ghosh, A., Bianchini, M. (eds) Advanced Computing and Intelligent Technologies. ICACIT 2024. Lecture Notes in Networks and Systems, vol 1359. Springer, Singapore. https://doi.org/10.1007/978-981-96-4933-4_18

Patents Published

1. **Automatic Vehicle Speeding Detection, Location, Notification, and Tracking System:**
Application No.: 202111000125
 2. **Two-Axis (180°) Intelligent Solar Tracking System Using Integrated Artificial Intelligence:**
Application No.: 202111000123
 3. **System and Method for Patient Monitoring:**
Application No.: 202511003404
 4. **Payment Processing Platform with Payment-Making Platform for Differentiated Payment Allocations Using Deep Learning:**
Application No.: 202211067440
 5. **Authentication of External Devices to Implantable Medical Devices Using Artificial Intelligence:**
Application No.: 202211067442
 6. **Payment-Making Platform for Differentiated Payment Allocations Using Cryptocurrency:**
Application No.: 202511019562
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Personal Information

- **Name:** Dr. Anil Kumar Sagar
- **Father's Name:** Sh. R D Sagar
- **Date Of Birth:** 22.06.1976
- **Nationality:** Indian
- **Marital Status:** Married
- **Languages Known:** Hindi, English
- **Permanent Address:** Flat No 603, Tower 08, Unitech Horizon Pi 2 Greater Noida 201310.