

Faculty Profile

Name : Dr. Gunjan Beniwal
Designation : Assistant Professor
Qualifications : Ph.D, M.Tech (CSE), B.Tech (IT)
Email : gunjanbeniwal@msit.in
Area of Interest/Specialization: IoT, Fog Computing, Machine learning,
: Deep learning, Text Analysis
Experience : 10+ years



Dr. Gunjan Beniwal is an accomplished academican and researcher with 10+ years of experience in teaching, research, and academic administration in the field of Computer Science and Engineering. She holds a Ph.D. in Computer Science and Engineering from DCRUST, Murthal, with her research focused on Quality of Service (QoS) provisioning in IoT gateways, fog computing, task scheduling, resource allocation, and intelligent computing frameworks.

She has published research papers in reputed international journals and conferences and has contributed to the field through research publications, intellectual property, and academic activities. She has also been awarded the Research Excellence Award consecutively in 2023, 2024, and 2025 in recognition of her research contributions. She is also a patent holder and actively contributes to the academic research community by serving as a reviewer for research papers and participating in the organization and coordination of international conferences.

Along with her teaching and research responsibilities, she actively participates in academic, technical, and institutional activities and undertakes various responsibilities contributing to the overall development of students and the institution. She is committed to fostering a research-oriented learning environment and encouraging students to explore emerging technologies and innovative problem-solving approaches.

Key Publications:

1. Gunjan, Beniwal, and Anita Singhrova. "A systematic literature review on IoT gateways." *Journal of King Saud University-Computer and Information Sciences* (SCIE) 34.10 (2022): 9541-9563.
2. Gunjan Beniwal and Anita Singhrova, 'Memoization Based Priority-aware Task Management for QoS Provisioning in IoT Gateways'. *Journal of Ambient Intelligence and Smart Environments* (SCIE) ,1 Jan. 2023 : 381 – 399
3. Sharma, B., Hashmi, A., Beniwal, G., & Gupta, C. (2025). Grasshopper Optimization Algorithm Based Recommender System. In *Modern Artificial Intelligence Based on Soft Computing Techniques* (pp. 167-178). Cham: Springer Nature Switzerland., Book chapter

4. Gunjan Beniwal and Anita Singhrova, (2025). Energy-efficient smart gateway framework with QoS-aware resource allocation in IoT ecosystem. Next Energy,(ESCI) 9, 100413.

Papers presented in Conferences

1. Singh, Shubham, Shantanu Bhardwaj, Hemlatha Pandey, and Gunjan Beniwal. "Anomaly detection using federated learning." In *Proceedings of International Conference on Artificial Intelligence and Applications: ICAIA 2020*, pp. 141-148. Springer Singapore, 2021.
2. G. Beniwal and A. Singhrova, "Memoization-based Task Scheduling Algorithm for Smart Healthcare Systems," 2024 OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 4.0, Raigarh, India, 2024, pp. 1-6, doi: 10.1109/OTCON60325.2024.10688173.
3. Beniwal, G., & Singhrova, A. (2024, October). Memoization-Based Smart Gateways for Medical IoT. In *International Conference on Data-Processing and Networking* (pp. 353-363). Singapore: Springer Nature Singapore.

Patent/Copyright

1. IOT Based Autonomous Post Pandemic HealthCare Monitoring System
2. QoS-aware Machine Learning-enabled Intelligent Gateway Framework
3. Computing Device for IOT Sensor Network Management