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SIGNIFICANT SUMMARY

- Authored **45** Engineering and Computer Applications Text Books.
- **40** Research Publications in reputed peer reviewed journals including *SCOPUS*, *SCI indexed*, *Springer* etc.
- **20** Research papers presented in International and National seminars/conferences.
- **21** years of experiences in Teaching and Research Functions.

SELECTED RESEARCH PUBLICATIONS

1. Paper Titled "Comprehensive cost analysis of voice call recording storage with and without NAS and GSM gateway integration via unified communication server". *Edelweiss Applied Science and Technology*, 8(6), 4219–4234. (2024) <https://doi.org/10.55214/25768484.v8i6.2922> (**Scopus Indexed**)
2. Paper Titled "Comparative Performance Analysis of Load Balancing Techniques in Cloud Computing". *International Journal of Performability Engineering*, 2025, 21(7): 401-410. <https://doi.org/10.23940/ijpe.25.07.p6.401410> (**Scopus Indexed**)
3. Paper Titled "Enhancing Voice Call Recording Data Safety Through Auto Backup in Integrated NAS with GSM Gateway via UC Server," *2024 4th International Conference on Innovative Sustainable Computational Technologies (CISCT)*, Dehradun, India, 2024, pp. 1-6, <https://doi.org/10.1109/CISCT62494.2024.11134268> (**Scopus Indexed**)
4. Paper Titled "Case Summarization Using LLM Model for Supreme Court Judgments of an Indian Judiciary System." In: Joshi, A., Ragel, R., Mahmud, M., Kartik, S. (eds) *ICT: Applications and Social Interfaces. ICTCS 2024. Lecture Notes in Networks and Systems*, vol 1383. Springer, Singapore. https://doi.org/10.1007/978-981-96-5754-4_8 (**Scopus Indexed**)

5. Paper Titled "Assessment and analysis of NAS-GSM gateway fusion for voice data archiving via UC Infrastructure". *Multidisciplinary Science Journal*, 7(1), 2025061. <https://doi.org/10.31893/multiscience.2025061> (2024) **(Scopus Indexed)**
6. Paper Titled "Data-driven prediction of mechanical properties in friction stir processed Al6061-Alumina composite using enhanced machine learning models". *Research on Engineering Structures & Materials*. Advance online publication. <https://doi.org/10.17515/resm2024.438me0907rs> (2024) **(Scopus Indexed)**
7. Paper Titled "Advanced machine learning for optimal parameter prediction in friction stir processing Paper Titled "of Al-6061 alloy with alumina nanoparticle reinforcement", *Metallurgical Research & Technology*, 122(1), Article 105, 14 pp. <https://doi.org/10.1051/metal/2024096> (2025) **(Scopus Indexed)**
8. Paper Titled "Smart Healthcare IoT: A hybrid deep learning approach for depression prediction. *African Journal of Biomedical Research*, 27(4S), 12905–12914. <https://doi.org/10.53555/AJBR.v27i4S.6487> (2024) **(Scopus Indexed)**
9. Paper Titled "Diagnosis of liver fibrosis using multilayer fuzzy inference system", *African Journal of Biomedical Research*, 27(4S), 13534–13551. <https://doi.org/10.53555/AJBR.v27i4S.6740> (2024) **(Scopus Indexed)**
10. Paper Titled "Exploring the Role of AIoT in Data Privacy and Security". In M. Tariq (Ed.), *Merging Artificial Intelligence With the Internet of Things* (pp. 75-102). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-8547-0.ch003> (2025) **(Scopus Indexed)**
11. Paper Titled "Personalization in Tourism Marketing Based on Leveraging User-Generated Content With AI Recommender Systems". In M. Valeri, S. Shah, & B. Al-Ghazali (Eds.), *Redefining Tourism With AI and the Metaverse* (pp. 317-346). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-8482-4.ch010> (2025) **(Scopus Indexed)**
12. Paper Titled "Exploring the Effects of AI-Powered Personalized Classroom Management Strategies". In K. Keeley (Ed.), *AI Applications and Strategies in Teacher Education* (pp. 21-42). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-5443-8.ch002> (2025) **(Scopus Indexed)**
13. Paper Titled "From Automation to Optimization: Exploring the Effects of AI on Supply Chain Management". In D. Pandey, B. Pandey, U. Kanike, A. George, & P. Kaur (Eds.), *Utilization of AI Technology in Supply Chain Management* (pp. 77-94). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-3593-2.ch006> (2024) **(Scopus Indexed)**
14. Paper Titled "Integration of intelligent system and big data environment to find the energy utilization in smart public buildings". In P. S. Rathore, A. Kumar, S. Bhatia, A. Mashat, & T. R. Gadekallu (Eds.), *Handbook of research on big data, green computing, and intelligent systems* (Chapter 10). Wiley. <https://doi.org/10.1002/9781394231522.ch10> (2024) **(Scopus Indexed)**