

# CSM PUBLICATIONS

## 2025 CSM PUBLICATIONS

1. Harish Babu Gade, Appala Raju Uppala, **Purushotam Naidu Karri**, Renuka Devi Sinduvala Mallesh, Venkata Krishna Odugu, Janardhana Rao B, “Hardware architecture of efficient image dehazing technique for advanced driving assistance system,” *Computers and Electrical Engineering*, vol. 126, p. 110493, 2025, doi: 10.1016/j.compeleceng.2025.110493. <https://doi.org/10.1016/j.compeleceng.2025.110493>
2. **K.P. Naidu**, G. S. Sivaanandini, P. Divya, C. AnuSri, T. D. Prasanna, and R. N. Supriya, “Advanced diabetic retinopathy detection using deep learning classifiers,” *International Journal of Image Processing and Pattern Recognition*, vol. 11, no. 1, pp.26-33, 2025. <https://journalspub.com/wp-content/uploads/2025/01/26-33-Advanced-Diabetic-Retinopathy-Detection-using-Deep-Learning-Classifiers.pdf>
3. **K.P. Naidu**, B. Janardhana Rao, K. Revathi, M. Geetha Gayathri, and G. Surya Jayasri, “Classification of music genres using multimodal deep learning technique,” in *E3S Web Conf.*, vol. 616, p. 02012, Feb. 2025. <https://doi.org/10.1051/e3sconf/202561602012>
4. **K. Purushotam Naidu et al.**, “Implementation of CAN protocol for automobile application,” in *Proc. 1st Int. Conf. ICRTECCA 2025*, CVR College of Engineering, Hyderabad, India, Apr. 23, 2025.
5. B. J. Rao, **K. P. Naidu**, K. Revathi, **V. L. Rao**, and **S. Sumahasan**, “Development of deep learning technique for crop pest classification,” in *Proc. ISTE Sponsored 2nd Int. Conf. Renewable Energy, Green Computing and Sustainable Development*, CVR College of Engineering, Hyderabad, India, Feb. 2025. [https://link.springer.com/chapter/10.1007/978-3-032-00884-8\\_20](https://link.springer.com/chapter/10.1007/978-3-032-00884-8_20) .(Common to CSE, CSM departments)
6. **S. Sumahasan, K.P.Naidu, V.L.Rao** and **A.U.Kumar**, “Parkinson’s disease detection on spiral images using CNN with meta-classifiers,” *Journal of Computer Technology and Applications*, vol. 16, no. 1, pp.55-66, Jan. 2025.(Common to CSE, CSM departments)

## Book

1. **Mr Sumahasan**, Dr Udaya Kumar, **Dr V Lakshmana Rao**, **Dr K purushotam Naidu**, “Fundamentals of Cloud Computing”, published by SKRGC publication, ISBN: 978-93-6492-936-3, Feb. 2025.(joint publication with CSE authors) .(Common to CSE, CSM departments)

## 2024 CSM PUBLICATIONS

1. H. Jyothula, **Lakshmana Rao. Y.**, D. N. Tej, C. S. Reddy, S. Sathuluri, and P. Naidu, “Implementation of real and accurate level set formulation in brain MRI/CTA image segmentation and classification,” *Frontiers in Health Informatics*, vol. 13, no. 3, Nov. 2024. .(Common to CSE, CSM departments)
2. M. S. Z. Almahairah, S. Goswami, **K. P. Naidu**, I. M. Krishna, M. Aarif, and G. Manoharan, “Applications of internet of things and big data in improving supply chain financial risk management system,” *IEEE Xplore*, Feb. 2024, doi: 10.1109/UPCON59197.2023.10434460.
- 3.**K. P. Naidu**, V. L. Rao, M. Esha Thaniya, K. Indu, R. Sai Reddi, K. Bharathi, and P. Raj Tanuja Pentapati, “A hybrid machine learning approach for cardiovascular disease prediction,” *J. Artif. Intell. Res. Adv.*, vol. 12, no. 1, pp. 69–75, 2024.
4. **K. P. Naidu**, T. Anitha, I. Poshitha, K. Y. Lamani, G. Satvika, and G. Siresha, “Unified ensemble techniques for enhanced ddos attack prevention and detection,” *Int. J. Wireless Secur. Netw.*, vol. 2, no. 2, pp. 20–27, 2024.
5. **D. K. Bebarta**, G. Bhavya, S. R. T, C. S. Malvina, and G. A. D. Naidu, “Automated plant disease detection using deep learning,” *Int. J. Sci. Res. Eng. Manag.*, vol. 8, no. 5, May 2024.

6. **K. P. Naidu**, B. Indu, B. Utkarsha, L. Unnisha, and T. J. Priyanka, "Detection and optimization of pneumonia using deep learning and pyspark techniques," *Int. J. Creative Res. Thoughts*, vol. 12, no. 4, Apr. 2024.
7. **K. P. Naidu**, K. Roshini, J. Sravanthi, T. K. Rekha, N. Sirisha, and M. Thanushya, "Optimizing heart disease prediction: comparative analysis of machine learning algorithm for early detection," *Int. J. Comput. Sci. Lang.*, vol. 2, no. 1, Apr. 2024.
8. **K. P. Naidu**, S. Deepika, N. S. Ramya, N. Sharmila, K. Vaishnavi, and P. Bhavitha, "Intrusion detection system using gated recurrent neural network," *Int. J. Softw. Comput. Test.*, vol. 10, no. 1, May 2024.
9. **K. P. Naidu**, N. Varshitha, P. D. S. Varsha, U. B. Sri, and G. Aravinda, "Machine learning exploration of bank marketing data with apache spark," *Int. J. Res. Appl. Sci. Eng. Technol.*, vol. 12, no. 4, Apr. 2024.
10. H. Gouthami, K. Sharmila, P. Hemalatha, A. V. M. Harshita, and W. V. S. S. Shreemaye, "User-driven generative ai architectural design," *Int. J. Creative Res. Thoughts*, vol. 12, no. 5, May 2024.
11. H. Gouthami, S. V. R. Manaswitha, R. Kavyasree, Y. Alekhya, and K. Anusha, "Blockchain based pharmaceutical supply chain management system," *Int. J. Sci. Res. Technol.*, vol. 9, no. 5, May 2024.

## Books:

1. Milad Moheeni, Dr. Jagadish, Ravi kiran Mahadasa, **Dr. K. Purushotam Naidu**, "Machine Learning", BR International, Jan 2024, ISBN: 978-81-965444-7-8

## 2023 CSM PUBLICATIONS

1. **Dr. Purushotham Naidu K.**, Bazee Ahmed, Suseela Sellamuthu, Inumathi V. Srinivas, A. N. Mohammed Zabeerulla, M. Ashok Kumar, "Design of an energy-efficient IoT device-assisted wearable sensor platform for healthcare data management," *Sensors Journal*, vol.30, pp. 100928, Dec. 2023, ISSN: 2665-9174.
2. Ganti Rohini Krishna Sindhu, Lakshmi Prasanna Penumatsa, Amrutha Varshini Mavuri, Rishitha Alla, **Dr. Dwiti Krishna**, "Stock time series prediction using machine learning techniques," *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, vol.11, no.4, pp.2430-2433, Apr. 2023. doi: 10.22214/ijraset.2023.50643
3. **K. Purushotam Naidu**, **V. Lakshmana Rao**, Gunturu Chaitanya Sree, Akkina Niharika, Ch. Rohitha, G. Srivalli, "Crop yield prediction using gradient boosting neural network regression model," *International Journal of Recent and Innovation Trends in Computing and Communication*, vol.11, no.3, pp.206-214, Mar. 2023, ISSN: 2321-8169. **.(Common to CSE, CSM departments)**
4. **Dr. V. Lakshmana Rao**, **K. Purushotham Naidu**, **S. Sumahasan**, **A. Uday Kumar**, "Deep learning-based brain tumor detection: Comparative evaluation," *International Journal of Management, Technology and Engineering*, Jun. 2023, ISSN: 2249-7455. **.(Common to CSE, CSM departments)**

## Book:

1. **Dr. K Purushotam Naidu**, **Dr. V. Lakshmana Rao**, Dr. A. Sri Krishna, Mr. Venkata Subba Reddy Gade, *Machine Learning for Absolute Beginners*. Hyderabad, India: Booksclinic, Dec. 2023, ISBN: 978-93-5823-854-9. **.(Common to CSE, CSM departments)**