

Dr. G Madhukar List of Publications

1. **Madhukar, Gunda;** Ramu, Pitchai; Virajitha, Tupurani; Jyothi, Nallagondla; Lanage, Rajshree; Saikumar, Akkam” An effective and safe method for estimating depth and segmenting pixels in self-driving automobiles”. AIP Conference Proceedings, Volume 3342, Issue 1, id.060033, 9 pp. 2025 Doi.10.1063/5.0296658.
2. **G. Madhukar,** Chandrasekhar Jatoth and Rajesh Doriya “Blockchain and AI for improved data management and traffic safety in the internet of vehicles: A systematic review”. Journal of Automobile Engineering. doi.org/10.1177/09544070251337211. 2025.
3. Bathula Mounika, **G. Madhukar,** Chandrugonda Malleshwar Rao & R. Venkateswara Reddy “Assessment Analysis in a Cloud Environment to Analyze the Behavior of Open-Source Cloud Software”. Lecture Notes in Networks and Systems pp 323–333.2025.
4. Shyam Sundar Yerra, Amit Kumar Singh, Pinamala Sruthi, T. Bhaskar, **G. Madhukar** & Yedlla Satyam
5. “An Evaluation Conducting on the Process of Developing and Carrying Out an Encrypted QR Code Application”. Lecture Notes in Networks and Systems. pp 316–324.2025.
6. **G. Madhukar,** Ramesh Chegoni, R. Bhargav Ram, B. Venkataramanaiah, Sunil Kumar Singh & Mannem Saimanasa “An Analytical Method of Artificial Intelligence for Classifying and Identifying Skin Cancer Cases Using Stochastic Neural Networks” Lecture Notes in Networks and Systems. pp 295–303.2025.
7. **G. Madhukar,** Ravi Regulagadda, M. D. Rafeeq, Maredu Mallikarjun, T. Upender & R. Suhasini “Analyzing and Recommending News Content by Employing Naive Bayes Classifier” Lecture Notes in Networks and Systems. pp 319–326.2025.
8. M. Ravindran, **G. Madhukar,** A. Srinivasula Reddy, Mandapati Raja, R. Venkateswara Reddy & R. Suhasini ” An Implementation of Convolutional Neural Network-Based Architecture to Address Facial Sentiment Analysis” Lecture Notes in Networks and Systems volume 1229. pp 351–360.2025.
9. Voruganti Naresh Kumar, A. Veerender, **G. Madhukar,** K. L. S. Soujanya, V. A. Naryana & A. Vivekananda “A Novel IoT-Based Block Chain Approach for Evaluating Confidential Data Sharing by Providing Data Privacy, Integrity, and Reliability”. Lecture Notes in Electrical Engineering, volume 1400. pp 353–370.2025.
10. Rajesh Tiwari, Himanshu Nayak, Vankudothu Malsoru, **G. Madhukar,** B. Anuradha & N. Surekha “A Precise and Comprehensive Assessment of Various Machine Learning Algorithms for the Detection of Plant Diseases”. Smart Innovation, Systems and Technologies volume 422. pp 367–375.2025
11. **Madhukar G,** Chandrashekar Jatoth & Rajesh Doriya “IoV block secure: blockchain based secure data collection and validation framework for internet of vehicles network”. Peer-to-Peer Networking and Applications. Volume 17, pages 3964–3990, 2024, <https://doi.org/10.1007/s12083-024-01802-y>.
12. Kavitha Rani Balmuri, Srinivas Konda, Kishore kumar Mamidala, **Madhukar Gunda,** Swaroopa Rani B, Automated and reliable detection of multi-diseases on chest X-ray images

using optimized ensemble transfer learning, Expert Systems with Applications, Volume 246, 2024, 122810, ISSN 0957-4174, <https://doi.org/10.1016/j.eswa.2023.122810>.

13. P. Patel, **G. Madhukar**, E. S. Babu and S. Kalyani, "An Examination of Image Identification and Classification through the Implementation of a Hybrid Deep Neural Network (LSTM-CNN)," 2024 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI .2024, pp. 1-4, doi: 10.1109/ICSCAI61790.2024.10867189.
14. S. Krishnaveni, Y. A. S. Devi, A. Mahvish, A. S. Shaik, **G. Madhukar** and B. Ramesh, "Assessment on Number Plate Detection and Recognition by Using Different Smoothing Algorithms," 2024 IEEE 6th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), 2024, pp. 510-516, doi: 10.1109/ICCCMLA63077.2024.10871908.
15. N. Misra, **G. Madhukar**, R. Kumar, L. Jasim, R. Udayakumar and S. B. Prakalya, "A Framework to Extract the Data from Network Associated with Drone System for Optimising Control," 2024 4th International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), 2024, pp. 1381-1385, doi: 10.1109/ICACITE60783.2024.10617384.
16. N. Sreekanth, G. N. Babu, G. R. Kumar, **Madhukar G** and A. M. Shakir, "A Cluster Based Routing Using Energy Efficiency-Based Multi-Objective Optimization in Wireless Sensor Networks," 2023 International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIE), 2023, pp. 1-6, doi: 10.1109/AIKIE60097.2023.10389902.
17. G. S. Yogananda, A. Babu. J, S. A. Julma, **G. Madhukar** and M. B. M., "Rice Plant Disease Classification using Transfer Learning of Deep ResNext Model," 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT), 2023, pp. 1-5, doi: 10.1109/EASCT59475.2023.10393090.
18. Raj Kumar Patra; A. Mahendar; **G. Madhukar**, "Inductive Learning Including Decision Tree and Rule Induction Learning," in Data Mining and Machine Learning Applications, Wiley, 2022, pp.209-234, doi: 10.1002/9781119792529.ch9.
19. Raj Kumar Patra; Srinivas Konda; M. Varaprasad Rao; Kavitarani Balmuri; **G. Madhukar**, "Predictive Model and Theory of Interaction," in Cognitive Behavior and Human Computer Interaction Based on Machine Learning Algorithms , Wiley, 2022, pp.179-209, doi: 10.1002/9781119792109.ch9.
20. B. Kavitha Rani, M. Varaprasad Rao, Raj Kumar Patra, K. Srinivas & **G. Madhukar**, "Vehicle type classification using graph ant colony optimizer based stack autoencoder model". Multimedia Tools and Applications (2022), SCI-Q1 Journal.
21. **Dr Madhukar G**, Mounika D, Sai Kiran S, Sai Kumar Goud M, "Generating Cloud Monitors from Models to Secure Clouds". The International Journal of analytical and experimental modal analysis, ISSN NO:0886-9367, Vol XIV, Issue VI, June-2022.
22. Varaprasad Rao, M., Kavitha Rani, B., Srinivas, K., **Madhukar, G**, "Sequential pattern mining for the u.s. presidential elections using google cloud platform (gcp)". Advances in Intelligent Systems and Computing, 2021, 1171, pp. 399–405.

23. V Rama Raju, D Anji Reddy, B K Rani, K Srinivas, M Varaprasad Rao, Raj Kumar Patra , **G Madhukar** and G Devadas, "A Low-Cost High-Speed Smart Instrument for Effective Electro Neuro Medical Diagnostics". IUP Journal of Electrical and Electronics Engineering; Hyderabad Vol. 14, Iss. 4, (Oct 2021): 7-17.
24. Venkateshwarla Rama Raju, Kavitha Rani Balmuri, Konda Srinivas, **G. Madhukar**, "Anadvance of complex multiface tedroot learning for Parkinson behavior using subthala micnucleus biomarkers", IP Indian Journal of Neurosciences 2021, Doi: <http://doi.org/10.18231/j.ijn.2021.041>, PageNo: 231-236.
25. Venkateshwarla Rama Raju, Kavitha Rani Balmuri, Konda Srinivas, **G. Madhukar**, "MER Signal Acquisition of STN-DBS Biomarkers in Parkinson`s: A machine learningauto regression approach", IP Indian Journal of Neurosciences, Volume:7, Issue : 3, ear:2021, Doi : <http://doi.org/10.18231/j.ijn.2021.040> Page No : 224-230.
26. V R Raju, B. K. Rani, K. Srinivas, M. Varaprasad Rao, R Kumar Patra, **G. Madhukar**, D Anji Reddy, "Measures of dispersion of WCs EMG waveforms variability: A study with automatic multi-channel guided low-cost high-speed electromyography". IP International Journal of Aesthetic and Health Rejuvenation, Volume: 4, Issue: 3, Year: 2021, Page No: 57-60.
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29. M Varaprasad Rao, B Kavitha Rani, K Srinivas, **G Madhukar**, "Automated Evaluationof Telugu Text Essays Using Latent Semantic Analysis", Turkish Journal of ComputerandMathematics Education, Vol.12 No. 5 (2021),1888-1890.
30. **Dr G. Madhukar**, B Pramod Reddy, Sravani Billakanti, Niharika Mandala, "ML and AI Based Crop Consultant". IJARESM, ISSN:2455-8011, Vol 9, Issue 2, June-2021.
31. K. Srinivas, B. Kavitha Rani, M,Varaprasada Rao, Rajkumar Patra. **G. Madhukar**, "Prediction of Heart Disease Using Hybrid Linear Regression". European Journal of Molecular & Clinical Medicine, ISSN 2515-8260 Volume 07, Issue 05, 2020.
32. K. Srinivas, B. Kavitha Rani, M,Varaprasada Rao, **G. Madhukar**, K.Srujanraju,"Corticosteroid Usage Trend And Their Focus Effects In Patients of Dermatology Using Machine Learning". European Journal of Molecular & Clinical Medicine, ISSN 2515-8260, Issue 8, 2020.
33. Venkateshwarla Rama Raju, Dabbeta Anji Reddy, Narasimha, Srinivas Konda, Kavitha Rani Balmuri, Madhukar Gunda, "Differentiation of Brain Sub-Cortical-Structures with Effective Micro Neuro Sensors Recording Based Support Vector Machines through Deep Brain Stimulator in Parkinson`s Disease". International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 01 | Jan 2020. e-ISSN: 2395-0056, Page 495-500.

34. K. Srinivas, B.Kavitha Rani, M.Varaprasad Rao, **G.Madhukar**, and B.Venkata Ramana, "Convolution Neural Networks for Binary Classification ", Journal of Computational and Theoretical Nanoscience, Volume 16, Number 11, November 2019, pp. 4877-4882(6).
35. K. Srinivas, B. Kavitha Rani and **Madhukar G**, "Protected and Flexible Multi- Keyword Score Search model over Encoded Cloud Data", International Journal of Innovative Technology and Exploring Engineering, (IJITEE), ISSN: 2278-3075, Volume-8 Issue-5 March,2019(Scopus).
36. B.Kavitha Rani, K.Srinivas, M.Varaprasad Rao, **G.Madhukar**, " Optimizing Replica Migration in Cloud Data Centers", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-2, July2019.
37. **G. Madhukar**, G. Nantha Kumar, "An Intruder Detection System based on Feature Selection Using Machine Learning Techniques", Jour of Adv Research in Dynamical & Control Systems, Vol. 11, No. 11, 2019, ISSN 1943-023X, DOI: 10.5373/JARDCS/ V11I11/ 20193191.
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