



# MALLA REDDY ENGINEERING COLLEGE FOR WOMEN

(Autonomous Institution-UGC, Govt. of India)

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Maisammaguda, Dhulapally, Secunderabad 500100.

## DEPARTMENT OF CSE – DS

### List of the papers published /Submitted to journals (MRECW affiliation only)

A.Y 2025-26

(SCOPUS indexed Journals or conference)

| S.No | Name of the Author | Author Position | Academic Year | Title of the paper                                                                                                                                                                                                                 | Document Type | journal /Conference name | Research Domain | For Citations purpose |
|------|--------------------|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|-----------------|-----------------------|
| 1.   | Dr.B.Sarada        |                 | 2026          | Predicting COVID-19 Cases with Dimensionality Reduction and Synthetic Data Generation: A TVAE and Logistic Regression Approach (iee conference), Optimized deep Feature Extraction For Accurate brain tumor classification(scopus) | Scopus        | -                        | -               | -                     |
| 2    | Dr. Abhijit Halkai |                 |               | Energy Efficient and Load Balancing Method for Clustering in WSN(EELB)                                                                                                                                                             | Scopus Q1     | -                        | -               | -                     |
| 3    | Dr. M Uma Devi     |                 |               | EEG Spectrogram Data for Schizophrenia Detection Using Fuzzy Learnin g Systems in                                                                                                                                                  | scopus        | -                        | -               | -                     |

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|---|--------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---|---|---|
|   |                    |  |  | Neural Pattern Recognition and Diagnostic Precision                                                                                                        |                                       |   |   |   |
| 4 | S.Prathap          |  |  | Explainable Multimodal Deep Learning Framework for Early Detection of Dementia Using Neuroimaging and Genomic Biomarkers                                   | Scopus Q3                             | - | - | - |
| 5 | G.Padma            |  |  | Hygraph-TE:A hybrid graph attention and temporal deep learning framework for software defined networking traffic engineering                               | SCOPUS                                | - | - | - |
| 6 | K.Doris Rachel     |  |  | Hybrid Embedding and Transformer-Based text and Vision Architecture for Deep Learning Artificial                                                           | SCOPUS INDEXED Conference paper       | - | - | - |
| 7 | Durga Hima Bindu S |  |  | Anomaly Aware CNN LSTM Intrusion Detection System for Cyber Defence in Next-Generation Networks                                                            | IEEE,Scopus Indexing Conference paper | - | - | - |
| 8 | K.Sanjeevaiah      |  |  | "Hyperspectral Image: A Fusion-Based Extraction and Classification Utilizing Centernet Technique."<br>- International Journal of Image and Graphics (IJIG) | Scopus Indexed - IJIG -Q3             | - | - | - |
| 9 | M. Venu            |  |  | Integrate Blockchain and AI Technologies: A Reliable, Accessible Structure for Self-Governing Data Exchanges in                                            | IEEE Scopus Indexing,Position-2       | - | - | - |

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|----|------------------|---|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                  |   |      | Intelligent Supply Chains                                                                                                                                                                                        |                  |          |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10 | Dr G Deepika     | 2 | 2026 | Electromagnetic field confinement-driven multi-resonator THz biosensing platform with Au–Ag–graphene hybrid coatings and angle-invariant machine learning prediction for point-of-care breast cancer diagnostics | Article          | Springer | Machine Learning           | Vijayarajan, S.M., Deepika, G., Swarna Devi, K.M. <i>et al.</i> Electromagnetic field confinement-driven multi-resonator THz biosensing platform with Au–Ag–graphene hybrid coatings and angle-invariant machine learning prediction for point-of-care breast cancer diagnostics. <i>Microsyst Technol</i> <b>32</b> , 3 (2026). <a href="https://doi.org/10.1007/s00542-025-05997-9">https://doi.org/10.1007/s00542-025-05997-9</a> |
| 11 | Dr B Sarada      | 1 | 2026 | Data Acquisition and Preprocessing Techniques for Effective Machine Learning                                                                                                                                     | Book chapter     | -        | Machine Learning           | Sarada, B. & Akhtar, C & Saroj, N. & Harwalka, Sanjeevini. (2026). Data Acquisition and Preprocessing Techniques for Effective Machine Learning. 10.1002/9781394355310.ch16.                                                                                                                                                                                                                                                         |
| 12 | Dr G.Deepika     | 1 | 2025 | Adaptive Lightweight Autoencoder with Noise Estimation Module for Noise Reduction in ECG Signals                                                                                                                 | Conference paper | -        | Deep Learning              | Deepika, G., Recharla, M., Deepika, S., P, I., & G, N. (2025). Adaptive Lightweight Autoencoder with Noise Estimation Module for Noise Reduction in ECG Signals. 2025 <i>International Conference on Communication, Computer, and Information Technology (IC3IT)</i> , 1-6.                                                                                                                                                          |
| 13 | Dr B SARADA      | 1 | 2025 | An Intutive Apporach with CNN Model for Landslide Prediction using Satellite Imagery                                                                                                                             | Conference paper | -        | AI FOR DIDASTER PREDICTION | B. Sarada, P. Varsha, N. Sindhu and M. Uma, "An Intutive Apporach with CNN Model for Landslide Prediction using Satellite Imagery," 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballari, India, 2025, pp. 1-8, doi: 10.1109/ICDCECE65353.2025.11035499.                                                                                                            |
| 14 | Mr. RAJESH SHINE | 1 | 2025 | Transforming Industries and Society: Applications, Challenges, and Future Trends in Augmented Reality Technology                                                                                                 | Conference paper | -        | AUGMENTED REALITY          | D. S. Rajesh, G. Indra Navaroj, K. V, S. Swetha, A. T. P and N. M, "Transforming Industries and Society: Applications, Challenges, and Future Trends in Augmented Reality Technology," 2025 5th International Conference on Soft Computing for Security Applications (ICSCSA), Salem, India, 2025, pp. 1772-1777, doi: 10.1109/ICSCSA66339.2025.11170739.                                                                            |

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|----|-----------------------------|---|------|---------------------------------------------------------------------------------------------------|------------------|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | Mr. G<br>SHRAVAN<br>CHANDRA | 3 | 2025 | A Hybrid Feature Selection and Hyperparameter-Tuned XGBoost Approach for Liver Disease Prediction | Conference paper | - | ML | Kate, Chennaiah & Rajkumari, & C, Anil & Geerlapally, Shravan & Sudheer, Pilli & Stalin, W.. (2025). A Hybrid Feature Selection and Hyperparameter-Tuned XGBoost Approach for Liver Disease Prediction. 1144-1152. 10.1109/ICSCSA66339.2025.11171205. |
| 16 | Mrs.Pallikonda<br>Priyanka  | 1 | 2026 | Using Typical Interaction Patterns, Predictive AI Can Recognize Subtle Pre-Disease Behavior       | Conference paper | - | ML | -                                                                                                                                                                                                                                                     |