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A Software-Centric Approach to Heart Disease Monitoring and Early Detection

Sahane, P.B., Shravage, C., Vairagar, S.A., ...Jagtap, M.A., Katkar, P.

*Lecture Notes in Networks and Systems*, 2026

Conference Paper

Multimodal Machine Learning for Women's Health Analytics and Classification

Sahane, P.B., Deshmukh, S., Dabhade, S., ...Patil, S.V., Patil, D.V.

*Lecture Notes in Networks and Systems*, 2026

Conference Paper

A Survey on Deep Learning Techniques and Real-Time Applications in Traffic Sign Recognition

Review

NLP-driven analysis of electronic health records for early Identification of tuberculosis cases

Deshmukh, A.A., Chitre, A.V., Lomte, V.M., ...Krishnanjaneyulu, P., Deshmukh, R.A.

**Indian Journal of Tuberculosis, 2025**

Article

An Efficient-Secure Patient Authentication Framework Using Wireless Body Sensor Networks in the Healthcare System

Argade, S.G., Vyavahare, S.S., Naranje, V.G., ...Chapke, Y.U., Mahale, R.S.

**International Journal of Communication Systems, 2025**

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Clustering differential expression: Techniques and implementation strategies for gene analysis

Kumbhar, A.A., Kumbharkar, P.B., Mane, D.T., Bhosale, A.

**Aip Conference Proceedings, 2025**

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AI-Driven Multimodal Stress Detection: A Comparative Study

Patil, S.A., Paithane, A.N.

**Biomedical and Pharmacology Journal, 2025**

Book Chapter

Electronic Health Records: A Survey

Ranjan, N.M., Bembde, M.S., Mate, G.S., Kumar, A.

**Advances of Machine Learning for Knowledge Mining in Electronic Health Records, 2025**

Conference Paper

Integrated Agricultural Decision Support System Leveraging Random Forest for Crop Prediction and EfficientNet B0 for Disease Prediction

Salunke, D., Shinde, R., Chechar, T., ...Rangdale, S., Tekade, P.M.

**Lecture Notes in Networks and Systems, 2025**

Article

Stationary wavelet transform and SpinalNet trained light spectrum Tasmanian devil optimization enabled DR detection using fundus images

Tamboli, M.S., Dhumane, A.V., Prasad, R.S., Prasad, J.R., Ranjan, N.M.

**Multimedia Tools and Applications, 2025**

Article

Fractional Pelican African Vulture Optimization-based classification of breast cancer using mammogram images

Prasad, R.S., Prasad, J.R., Ranjan, N.M., Dhumane, A.V., Tamboli, M.S.

***Imaging Science Journal*, 2025**

Book Chapter

Real-time cardiovascular health monitoring using ECG, ML models, and interpretation using Explainable AI methods (LIME and SHAP) within IIoT systems

Deshmukh, R.A., Salunke, S., Khalkar, R., ...Padyal, A., Golande, A.L.

***Explainable Artificial Intelligence Based Industrial Internet of Things Technologies and Applications*, 2025**

Conference Paper

Exploring NLP and Generative Algorithms to Enhance Healthcare Access in Remote Regions

Zawar, M., Vikhar, P.A.

***2025 International Conference on Applications of Machine Intelligence and Data Analytics Icamida 2025*, 2025**

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Enhancing early skin cancer detection and diagnosis through a rotation-invariant coordinate convolutional neural network for revolutionary medical advancements

Koparde, S.A., Abin, D., Kothari, S.M., Sarwade, J.M., Vhatkar, K.N.

***Progress in Artificial Intelligence*, 2025**

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Machine Learning Techniques for Evaluating Arsenic Contamination in Groundwater Sources of Gujarat for Public Health and Environmental Management

Wanjale, K., Deshmukh, R.A., Bendale, S.P., ...Ingole, S., Yadav, I.

***2025 World Skills Conference on Universal Data Analytics and Sciences Worldsuas 2025*, 2025**

Book

Rehabilitation Engineering, Assistive Technologies and the Future of Healthcare Using Robotics

Hemanth, D.J., Salunke, D.

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App-Based Leaf Disease Detection Using Image Pre-processing and Deep Learning

Bothe, R., Tipale, J., Sarote, S., Kale, M.

***Lecture Notes in Electrical Engineering*, 2025**

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Visible light communication and quadrant photodiode based vehicle positioning for enhanced road safety

Tiwari, A., Kedar, S.V., Kumar, S., Shukla, B.

***Journal of Optical Communications*, 2025**

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Vehicle Accident Alerting and Monitoring with IoT-based Data Analytics

Lambor, R., Jadhao, A., Nandane, T., ...Kanawade, M.A., More, S.

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Article

DehazeNet-assisted fog removal and channel estimation for robust visible light V2V communication

Srivastava, M.K., Ranjan, R., Kedar, S.V.

***Journal of Optical Communications*, 2025**

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Real-Time Pothole Detection for Enhanced Road Safety with YOLO Algorithm

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Conference Paper

Risk Zone Awareness: Detecting Black Spots and Alerting Users to Potential Hazard

Karemore, P., Umbare, R., Sonawane, V., ...Gholap, A., Naunde, S.

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Selection of Optimal Waste Cooking Soybean Oil Biodiesel Blends for Emission Reduction in CI Diesel Engines Under Variable Loads: A Combined Analytic Hierarchy Process (AHP)-Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) Analysis

Kajale, T., Pawar, A.A., Hole, J.A., Dubal, S.V.

***International Journal of Automotive Science and Technology*, 2024**

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Pothole detection model for road safety using computer vision and machine learning

Bidve, V.S., Kakade, K.S., Bhole, R.H., ...Borde, S.P., Kediya, S.O.

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A Comparative Assessment of Water Quality in the Pavana River: Urban vs. Suburban Locations in Pune, India

Nerlekar, T., Mulay, B.N., Gajghate, P.W., ...Thorat, S.S., Chipade, A.M.

***Journal of Mines Metals and Fuels*, 2024**

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A Model for Predicting Chronic Kidney Diseases Based on Medical Data Using Reinforcement Learning

Senthil Kumar, N.K., Aseervatham, J., Moholkar, K.P., ...Banu, S., Sengan, S.

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Health Monitoring for Parents Away: A Wearable IoT Solution for Rural and Urban Areas

Jadhav, D.S., Andhale, A., Padale, A., ...Mane, S., Golande, A.L.

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Article

Manifold grasshopper optimization based extremely disruptive vision transformer model for automatic heart disease detection in raw ECG signals

Golande, A.L., Pavankumar, T.

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Advanced Comparative Analysis of Cardiovascular Heart Disease Detection Techniques: Insights from Empirical Results

Nikam, Y., Paithane, A.N.

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Smart Waste Manager: YOLO-driven Medical Waste Detection and Classification System

Bobbe, S., Adhav, P., Bhalerao, O., Chaware, S.M.

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Helmet Detection and Number Plate Recognition Using Machine Learning

Ranjan, N.M., Rangdale, S., Salunke, D., ...Nahar, S., Raut, R.M.

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Revolutionizing Healthcare: AI-Powered Solutions, Technological Integration for Accessible and Effective Medical Service

Shaikh, A.J., Takbhate, S.B., Gawai, S.V., Limbore, A.M., Patil, V.A.

***2024 International Conference on Advances in Computing Research on Science Engineering and Technology Acroset 2024*, 2024**

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Deep Learning Approaches for Drowsiness Detection System: A Comprehensive Survey

Mahajan, P., Pawar, O., Gaikwad, T., Gupta, D.

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Prediction and Detection of Liver Diseases using Convolutional Neural Network

Ashtekar, O., Umbare, R., Nikhal, A., Pagar, B., Zare, O.

**15th International Conference on Advances in Computing Control and Telecommunication Technologies Act 2024, 2024**

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Depression Detection using Machine Learning

Bhamre, V., Umbare, R., Tamboli, D.N.A., Jadhav, T., Kurlle, P.

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Coronary Artery Disease Prediction Using Facial Features

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Characterizing and Classifying Brain Tumors via HOG Features

Gavkare, S., Umbare, R., Shinde, K., Patange, P., Katmore, Y.

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A Computer Vision-based algorithm for accident detection, severity classification and rapid emergency response using YOLOv8 and Twilio Programmable Messaging API

Rangdale, S., Ranjan, N.M., Ukirde, P., ...Hanchate, S., Mehtre, N.

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Demystifying Liver Disease Prediction: The Role of PSO Algorithm

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A Smart Healthcare Application using Artificial Intelligence (AI) and Machine Learning (ML)

Umbare, R., Patil, R., Mukund, T., Rathod, A., Rajurkar, P.

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Precision Nutrition through Smart Wearable Technology Tailored Solutions for Personalized Health Enhancement

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Identification of Polycystic Ovarian Syndrome through Clinical Metrics and Ultrasonographic Imaging Analysis

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Comprehensive Analysis of Electronic Health Records: Introducing SWASTHA - A Novel Model

Moholkar, K.P., Sayyad, A., Mogle, S., ...Raut, P.K., Jayabhaye, S.

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Analysis Hybrid Approach for Multi-Objective Optimization-based segmentation of fuzzy contours in mammogram using artificial plant optimization algorithm

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Exploring Pre-Trained CNN Models for Classification of Melanoma

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Development of a Probabilistic Framework for Enhanced Vision Safety in Driver Assistance Systems

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Predictive Analytics for Heart Diseases using Machine Learning

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Advanced Driver Assistance Systems (ADAS) feature in Modern Autonomous Vehicle

More, S., Mulla, A.C., Argade, S.G., ...Sakhare, P., Jadhav, S.P.

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Smart Watch Assisted Multi-disease Detection Using Machine Learning: A Comprehensive Survey

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Gradient bald vulture optimization enabled multi-objective Unet++ with DCNN for prostate cancer segmentation and detection

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Epidemic Diseases Forestall Module using Data Science and SIR Algorithms

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Prognosis of Polycystic Ovary Syndrome (PCOS) by its Symptoms and Rotterdam Criteria

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Mane, D.T., Ashtagi, R., Kumbharkar, P.B., ...Salunke, D., Upadhye, G.D.

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An Experimental Investigation of Wear Particles Emission and Noise Level from Smart Braking System

Patil, L.N., Khairnar, H.P., Hole, J.A., ...Panchal, R.N., Hiwase, V.B.

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Machine learning approach for prediction of lung cancer

Kasturiwale, H.P., Bhisikar, S.A., Save, S.S.

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Prediction and Classification of Ovarian Cancer using Enhanced Deep Convolutional Neural Network

Kasture, K.R., Choudhari, D.P., Matte, P.N.

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Prediction of Road Accident Using Artificial Neural Network

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An Enhanced Approach on Brain Tumor Segmentation by the use of Deep Learning

Raj, A.S., Malik, J., Kumar Tondepu, P.S., ...Kumar, A., Bujare, S.

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Detection of pneumonia progression in lungs of individuals affected with covid 19 severely using deep learning techniques

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Multi-class Classification of Ovarian Cancer from Histopathological Images using Deep Learning - VGG-16

Kasture, K.R., Sayankar, B.B., Matte, P.N.

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Lungs Diseases Prediction based on Convolutional Neural Network

Shirsat, S., Kedar, S.V.

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Bhapkar, H.R., Mahalle, P.N., Dhotre, P.S.

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Evaluation of energy absorbing capacity of crash box filled with honeycomb material

Wadkar, S.S., Badadhe, A.M.

***Techno Societal 2018 Proceedings of the 2nd International Conference on Advanced Technologies for Societal Applications, 2020***

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Smart hospital for heart disease prediction using IoT

Sorte, P., Golande, A.L., Yermalkar, A., ...Wanjare, U., Satpute, S.

***International Journal of Innovative Technology and Exploring Engineering*, 2019**

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Golande, A.L., Sorte, P., Suryawanshi, V., ...Yermalkar, U., Satpute, S.

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Design and develop an algorithm for a diabetic detection using ECG signal

Musale, R., Paithane, A.N.

***Proceedings of the International Conference on Computing Methodologies and Communication Iccmc 2017*, 2017**

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Texture based interstitial lung disease detection using convolutional neural network

Hattikatti, P.

***2017 International Conference on Big Data Iot and Data Science Bid 2017*, 2017**

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Noninvasive Diabetes Mellitus detection based on texture and color features of facial block

Padawale, S.N., Jadhav, B.D.

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Channapattana, S.V., Pawar, A.A., Kamble, P.G.

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Heart disease prediction using k-nearest neighbor classifier based on handwritten text

Kedar, S.V., Bormane, D.S., Nair, V.

***Advances in Intelligent Systems and Computing*, 2016**

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