



SCHOOL OF
ENGINEERING

Dayananda Sagar University

School of Engineering



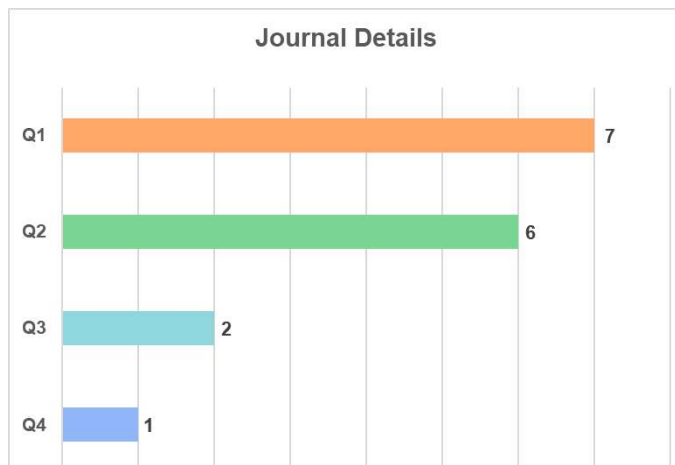
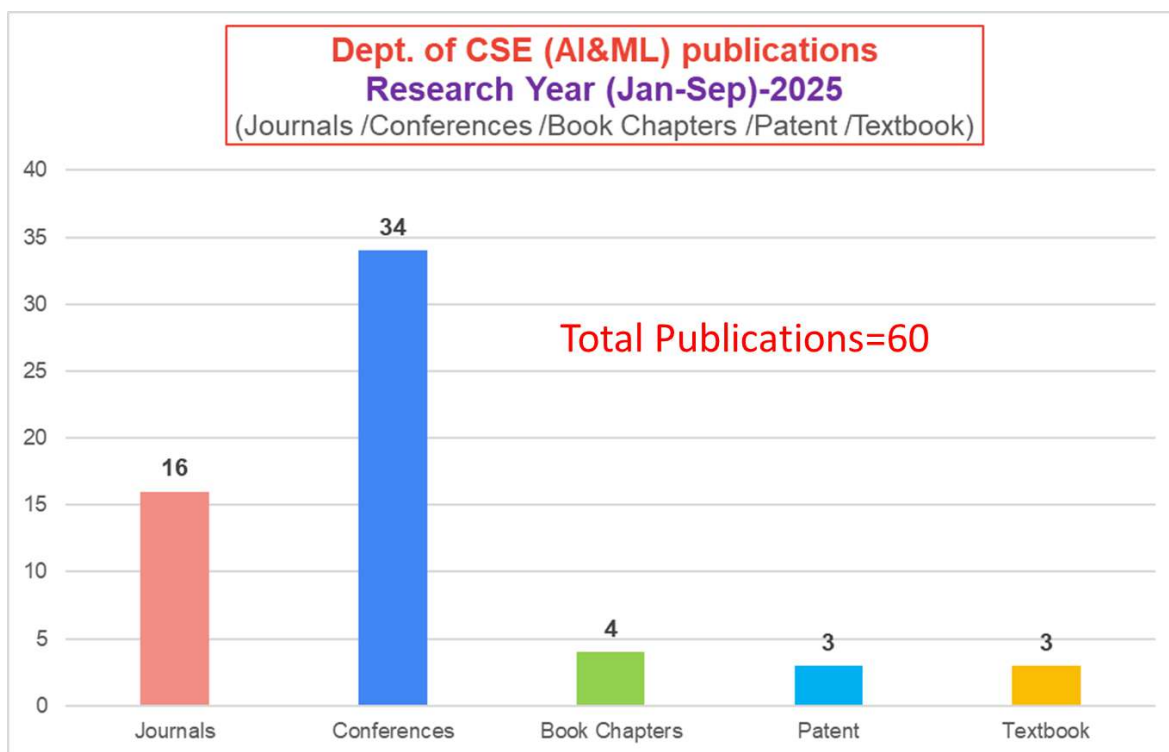
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(Artificial Intelligence & Machine Learning)

JOURNAL, CONFERENCE, BOOK CHAPTERS, PATENT, TEXTBOOK/BOOK PUBLICATIONS

Research Year-2025 (Jan-Sep)



Journals-2025

Sl. No.	Faculty Name	Title of the Paper	Name of the Journal	Quartile (IF)	Description Link
1	Prof. Subhash Mondal	An Efficient Malware Detection Approach Based on Machine Learning Feature Influence Techniques for Resource-Constrained Devices	IEEE Access	Q1 (3.6)	https://ieeexplore.ieee.org/abstract/document/10830491
2	Prof. Subhash Mondal	An efficient artificial neural network-based optimization techniques for the early prediction of coronary heart disease: comprehensive analysis	Scientific Reports, Nature Publishing Group UK	Q1 (3.8)	https://www.nature.com/articles/s41598-025-85765-x
3	Dr. Joshuva Arockia Dhanraj	Cameraless sensor fusion: developing a cost-effective driver assistance system using radar and ultrasonic sensor	Sensor Review	Q3 (1.6)	https://www.emerald.com/insight/content/doi/10.1108/sr-08-2024-0702/full/html
4	Dr. Joshuva Arockia Dhanraj	Pitting corrosion studies on SS316L wall fabricated by directed energy deposition-based wire arc process	Journal of Alloys and Metallurgical Systems	Q1 (4.2)	https://www.sciencedirect.com/science/article/pii/S294991782500029X?via%3Dihub
5	Dr. Shreyas Rajendra Hole	Empirical analysis of control models for different converter topologies from a statistical perspective	Science and Technology for Energy Transition, EDP Sciences	Q2 (1.8)	https://www.stet-review.org/articles/stet/full_html/2025/01/stet20240208/stet20240208.html
6	Dr. Shreyas Rajendra Hole, Dr. Jayavrinda Vrindavanam	An efficient Quantum-Enhanced Ensemble Fault Detection for Solar Energy Integration using an Iterative Game-Theoretic Approach with Adaptive Neuro-Fuzzy Inference and Energy Storage	Solar Energy and Sustainable Development	Q2	https://jsesd-ojs.crsers.ly/ojs/index.php/jsesd/article/view/489
7	Dr. Jayavrinda Vrindavanam	A Review of Block Ciphers and its Post-Quantum Considerations	IEEE Access	Q1 (3.6)	https://ieeexplore.ieee.org/document/10938619
8	Dr. M. Lakshmanan	Implementation of Energy-Aware Optimal Routing for Improving Traffic Capacity in Ad Hoc Wireless Network Using Hybrid Heuristic Algorithm	International Journal of Communication Systems	Q2 (1.7)	https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.6126
9	Dr. Bahubali Shiragapur	Enhanced Spectrum Sensing with Self-Organizing Maps and Deep Belief Networks: A Time-Efficient Approach	Journal of Information Systems Engineering	Q4	Enhanced Spectrum Sensing with Self-Organizing Maps and Deep Belief

			and Management		Networks: A Time-Efficient Approach Journal of Information Systems Engineering and Management
10	Dr. Shreyas Rajendra Hole	Optimizing Solar Radiation Forecasting for Renewable Energy Systems: A Comparative Analysis of Machine Learning and Feature Engineering Techniques	Solar Energy and Sustainable Development	Q2	Optimizing Solar Radiation Forecasting for Renewable Energy Systems: Solar Energy and Sustainable Development Journal
11	Prof. Subhash Mondal	Fetal health risk prediction using ensemble-based machine learning approaches	Knowledge and Information Systems, Springer Nature.	Q2 (3.1)	Fetal health risk prediction using ensemble-based machine learning approaches Knowledge and Information Systems
12	Dr. Sugandha Saxena	FL-DPCSA: Federated learning with differential privacy for cache side-channel attack detection in edge-based smart grids	e-Prime - Advances in Electrical Engineering, Electronics and Energy	Q1 (4.7)	https://doi.org/10.1016/j.prime.2025.101057
13	Dr. Lakshmanan M	A multi-objective function derived for traffic capacity enhancement using hybrid optimization of energy-aware routing in ad hoc wireless network	Sustainable Computing: Informatics and Systems	Q1 IF=5.7	https://doi.org/10.1016/j.suscom.2025.101165
14	Dr. Abdul Haq Nalband	Memory-Efficient Annotation Techniques for Autonomous Drone Navigation	IEEE Access	Q1 IF=3.6	https://ieeexplore.ieee.org/document/11084794?source=authoralert
15	Prof. Subhash Mondal	A computational eye state classification model using EEG signal based on data mining techniques: comparative analysis	Physical and Engineering Sciences in Medicine, Springer Nature.	Q2 IF=2.7	https://doi.org/10.1007/s13246-025-01619-w
16	Dr. Lakshmanan M, Dr. Joshuva Arockia Dhanraj, Dr. Sriramkumar R, Dr. Mude Nagarjuna Naik, Dr. Mithaguru	Blockchain-Enabled Medical Waste Management System for Enhanced Traceability, Safety and Environmental Protection	International journal of advances in soft computing and its applications	Q3	https://journals.zu.edu.jo/ijasca/PapersUploaded/2025.2.13.pdf

Conferences-2025

Sl. No.	Faculty Name	Title of the Paper	Name of the Conference	Indexed (WoS-SCI/Scopus) /Published	Description Link
1	Dr. Shreyas Rajendra Hole	AI-Driven Mobile Healthcare: Societal Impact, Workforce Adaptation, and Enhanced Predictive Modeling for Diabetes Risk Assessment	2025 International Conference on Pervasive Computational Technologies (ICPCT)	Scopus	https://ieeexplore.ieee.org/abstract/document/10940740/authors#authors
2	Dr. Shreyas Rajendra Hole	Design of an Efficient Model for DC–DC Converter Topologies and Grid Integration in Electric Vehicles	International Conference on Electric Power and Renewable Energy, Control Applications in Modern Power Systems. EPREC 2024. Lecture Notes in Electrical Engineering, vol 1304	Scopus	Design of an Efficient Model for DC–DC Converter Topologies and Grid Integration in Electric Vehicles SpringerLink
3	Dr. Gouranga Mandal	Efficient Rice Leaf Disease Detection Based on Convolutional Neural Networks	Proceedings of the 3rd International Conference on Machine Learning, Cloud Computing, and Intelligent Mining (MLCCIM2024)	Scopus	Efficient Rice Leaf Disease Detection Based on Convolutional Neural Networks SpringerLink
4	Dr. Shreyas Rajendra Hole, Sriramkumar R	A Design of Hybrid Model and Bayesian Neural Networks for Smart Grid Stability Prediction	2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE)	Scopus	https://ieeexplore.ieee.org/document/10967715
5	Dr. Shreyas Rajendra Hole, Dr. Mude Nagarjuna Naik	Hybrid Approach of TabNet and Transformer-XGBoost for Predicting Traffic Flow in Smart Cities	2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical	Scopus	https://ieeexplore.ieee.org/document/10968571

			Engineering (SSDEE)		
6	Dr. Shreyas Rajendra Hole, Dr. Jayavrinda Vrindavanam V	Hybrid PCA-Based Machine Learning Models for Predictive Analytics in Urban Health Monitoring Systems	2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE)	Scopus	https://ieeexplore.ieee.org/document/10967575
7	Prof. Subhash Mondal	Disease Detection in Finger Millet Plant Using Fine-Tuned Transfer Learning Models	2025 International Conference on Computing for Sustainability and Intelligent Future (COMP-SIF)	Scopus	https://ieeexplore.ieee.org/document/10969966
8	Prof. Subhash Mondal	A Real-time Sign Language Recognition System using MediaPipe and Random Forest Classifier combining with Text-to-Speech Technique.	2025 5th International Conference on Artificial Intelligence and Data Engineering (AIDE)	Scopus	https://ieeexplore.ieee.org/document/10986900
9	Dr. Joshuva Arockia Dhanraj	Monocular Depth Estimation for UAV Navigation Using Segmental Fully Convolutional Prairie Dog Neural Network	4th International Conference on Sentiment Analysis and Deep Learning, ICSADL 2025 - Proceedings	Scopus	https://ieeexplore.ieee.org/document/10933057
10	Dr. Joshuva Arockia Dhanraj	Influence of Silane Coupling Treatment on Friction and Wear Properties of Polymeric Composites Reinforced with Nano-ZnO Particles	INTERNATIONAL CONFERENCE ON NEWER ENGINEERING CONCEPTS AND TECHNOLOGY: ICONNECT-2024 28–29 March 2024 Trichy, India	Scopus	https://pubs.aip.org/aip/acp/article-abstract/3270/1/020255/3343957/Influence-of-silane-coupling-treatment-on-friction?redirectedFrom=fulltext
11	Dr. Joshuva Arockia Dhanraj	Investigation on the Mechanical and Wear Behavior of TIC Reinforced AZ64 Magnesium Alloy Composites	INTERNATIONAL CONFERENCE ON NEWER ENGINEERING CONCEPTS AND TECHNOLOGY: ICONNECT-2024 28–29	Scopus	https://pubs.aip.org/aip/acp/article-abstract/3270/1/020245/3343936/Investigation-on-the-mechanical-and-wear-behavior?redire

			March 2024 Trichy, India		ctedFrom=fulltext
12	Dr. Shreyas Rajendra Hole	Machine Learning and Artificial Intelligence for Predictive Modeling in Antimicrobial Resistance Data sets, Challenges, and Future Directions	2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES)	Scopus	https://ieeexplore.ieee.org/document/11009316
13	Dr. Vinutha N	Dynamic Slice Selection Based 3D Brain Tumour Volumetric Segmentation	International Conference on Data Science and Applications (ICDSA 2024)	Scopus Indexed	https://link.springer.com/chapter/10.1007/978-981-96-1188-1_16#citeas
14	Nanjappan, R., Vinutha, N., Jayavrinda, V.	Neuro Transformer: Transformer Model for Motor Imagery Classification	International Conference on Data Science and Applications (ICDSA 2024)	Scopus indexed	https://link.springer.com/chapter/10.1007/978-981-96-1188-1_24
15	Dr. Shreyas Rajendra Hole ; Dr. Jayavrinda Vrindavanam; Dr. Nagarjuna Naik Mude; Prof. R. Sriramkumar	Impact of artificial intelligence on the development of employment and the labor market	2024 International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA)	Scopus indexed	https://ieeexplore.ieee.org/document/11051827
16	Dr. Shreyas Rajendra Hole; Dr. Jayavrinda Vrindavanam	Transformative Effects of Artificial Intelligence on Workforce Dynamics in Industry 4.0	2024 International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA)	Scopus indexed	https://ieeexplore.ieee.org/document/11051964/authors
17	Prof. Subhash Mondal	An Intelligence Dual-Stage Heart Arrhythmia Prediction Framework Using Machine Learning Methods	3rd International Conference on Information Systems Security (ICISS-2024)	Scopus indexed	https://link.springer.com/chapter/10.1007/978-981-96-4093-5_38
18	Dr. Lakshmanan M; Prof. R. Sriramkumar; Prof. Mithaguru	Blockchain-Based HSFO Framework for Privacy Preservation of Health Care Data Using Hybrid Algorithms	2025 2nd International Conference on Research Methodologies in Knowledge Management, Artificial	Published	https://ieeexplore.ieee.org/document/11042708

			Intelligence and Telecommunication Engineering (RMKMATE)		
19	Prof. Subhash Mondal	Skin Cancer Detection based on Medical Image Synthesis using Generative Adversarial Networks and Fine-Tuned Transfer Learning Models	2025 3rd International Conference on Data Science and Information Systems (ICDSIS)	Published	https://ieeexplore.ieee.org/document/11071055
20	Dr. Vinutha N, Prof. Pradeep Kumar K	Augmenting Medical Diagnostics with AI: A Dual Approach Using RAG-Based Chatbots and Nano GPT Models	6th IEEE International Conference on RAIT 2025	Scopus Indexed	https://ieeexplore.ieee.org/document/11088917
21	Prof. Trupthi Rao	Estimating the driving range of electric vehicles in real-time using a fuzzy logic classifier	6th International Conference on Control, Communication and Computing (ICCC 2025)	Published	https://ieeexplore.ieee.org/document/11077343
22	CSS Krishna Kaushik, Dr. N Vinutha, Dr. Jayavrintha Vrindavanam	Hybrid Spiking Neural Network-Attention Model for Multi-Class Heart Disease Detection	6th IEEE International Conference on RAIT 2025	Scopus Indexed	https://ieeexplore.ieee.org/document/11089080
23	Yudhajit Jana, Dr. Vinutha N	Attention-Enhanced Transfer Learning for Emphysema Classification Using CBAM-Augmented ResNet-50	6th IEEE International Conference on RAIT 2025	Scopus Indexed	https://ieeexplore.ieee.org/document/11088919
24	Dr. M. Lakshmanan, Prof. Rakshita R	A Real-Time IoT and Machine Learning-Based Smart Insole System for Early Detection and Prevention of Diabetic Foot Ulcers	7th International Conference on Inventive Material Science and Applications	Scopus	https://ieeexplore.ieee.org/document/11074003
25	Dr. Joshua Arockia Dhanraj	Plant Disease Detection using Resampling Cubature Kalman Filter and Focused Transformer with Quantum Fuzzy Cell Attention Networks	Proceedings of 5th International Conference on Pervasive Computing and Social Networking, ICPCSN 2025	Scopus	https://ieeexplore.ieee.org/document/11035522
26	Dr. Vinutha N, Prof. Pradeep Kumar K	Augmenting Medical Diagnostics with AI: A Dual Approach Using RAG-Based	6th IEEE International Conference on RAIT 2025	Published (not indexed in Scopus)	https://ieeexplore.ieee.org/d

		Chatbots and Nano GPT Models			document/11088917
27	Prof. Trupthi Rao	Estimating the driving range of electric vehicles in real-time using a fuzzy logic classifier	6th International Conference on Control, Communication and Computing (ICCC 2025)	Published (not indexed in Scopus)	https://ieeexplore.ieee.org/document/11077343
28	Dr. Abdul Haq Nalband	Gender Classification Based on Machine Learning Models	2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0	Published (Not Indexed in Scopus)	https://www.scopus.com/pages/publications/105012089654
29	Prof. Nivetha R, Dr. Shreyas Rajendra Hole	Adaptive Multi Stream Modified CNN-LSTM Based Real-Time Sign Language Translation with 3D Pose Estimation and Temporal Modelling	2025 International Conference on Computing Technologies (ICOCT)	Published (Not Indexed in Scopus)	https://ieeexplore.ieee.org/document/11118664
30	Prof. Trupthi Rao	Advanced Risk Prioritization in Supply Chain Management Using Fuzzy AHP and TOPSIS	2025 International Conference on Emerging Trends in Industry 4.0 Technologies (ICETI4T)	Published (Not Indexed in Scopus)	https://ieeexplore.ieee.org/document/11132117
31	Dr. M. Lakshmanan	A study on blockchain based health records: Merkle tree with hybrid heuristic algorithm	AIP Conference Proceedings	Scopus	https://doi.org/10.1063/5.0241677
32	Utpal Kumar, Deekshitha M, Pradeep Kumar K, Jayavrinda Vrindavanam V, Gopal Sharma R Joshi, V.K.Hariharan	Optimizing Communication in ROS 2 With QoS Parameters for System Advantages	IEEE Space, Aerospace and Defence Conference (SPACE)	Published (Not Indexed in Scopus)	https://ieeexplore.ieee.org/document/11171196
33	Deekshitha M, Renuka Anil Sutar, R Sujay, Pradeep Kumar K, Jayavrinda Vrindavanam V, Gopal Sharma R Joshi, V.K.Hariharan, Arun Balodi	A Power-Efficient, Modular Rover Design for Multi-Purpose Exploration	IEEE Space, Aerospace and Defence Conference (SPACE)	Published (Not Indexed in Scopus)	https://ieeexplore.ieee.org/document/11170625

34	Mohith N, Dr. Vinutha N	Explainable AI for PCOS Diagnosis: A YOLOv8 and Vision Transformer Approach	Congress on Smart Computing Technologies (CSCT 2024)	Published (Not indexed in scopus)	https://link.springer.com/chapter/10.1007/978-981-96-6254-8_55
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Book Chapters-2025

Sl. No.	Faculty Name	Title of the Paper	Indexed Yes/NO (WoS-SCI/Scopus)	Description Link
1	Dr. Joshuva Arockia Dhanraj	Natural Language Processing Using Soft Computing	Scopus	https://onlinelibrary.wiley.com/doi/10.1002/9781394272464.ch19
2	Dr. Joshuva Arockia Dhanraj	Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data	Scopus	https://onlinelibrary.wiley.com/doi/10.1002/9781394272464.ch21
3	Dr. Joshuva Arockia Dhanraj	Optimized Machine Learning Techniques for Software Fault Prediction	Scopus	https://onlinelibrary.wiley.com/doi/10.1002/9781394272464.ch14
4	Dr. Joshuva Arockia Dhanraj	IoT-Driven Secure Data Sharing in Telemedicine Systems	Scopus	https://www.igi-global.com/gateway/chapter/382854

Patent-2025

Sl. No.	Faculty Name	Title of the Paper	Patent Office Journal Number	Description Link
1	Dr. M Lakshmanan, Dr. Mude Nagarjuna Naik, Prof. R Sriramkumar	Hybrid Quantum-Resistant Multi-Layer Encryption (HQRMLE) System for Health Records using Blockchain Storage and Method thereof	The Patent Office Journal No. 23/2025 Page No. 54241	https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal
2	Dr. Lakshmanan M & Dr. Jayavrinda Vrindavanam V	System and Method for Secure Cold-Chain Monitoring and Personalized Vaccine Forecasting Using IoT Sensors, Blockchain Logging, and AI-Based Time-Series	Patent Application No: 202541073602 A	https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal
3	Dr. M. Lakshmanan, Dr. Jayavrinda V, Dr. Joshuva Arockia Dhanraj, Prof. Sriramkumar R, Dr. Mude Nagarjuna Naik	Blockchain-Enabled Biometric Rental Agreement System with Integrated E-Stamping and Secure Digital Execution	Patent Application No.: 202541083564 A	https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal

Text Book/Book-2025

Sl. No.	Faculty Name	Title of the Textbook	Publisher	ISBN	Description Link
1	Dr. Joshuva Arockia Dhanraj, Dr. Mude Nagarjuna Naik, Prof. R Sriramkumar, Dr. M Lakshmanan	Integration of AI, ML & Data Science	Black Horse Publish	9789348460523	Amazon: https://tinyurl.com/4vf5kzep Flipkart: https://tinyurl.com/bdem97nc
2.	Dr. Prateek Verma	Radiodiagnosis in the era of AI	Radiodiagnosis in the era of AI	-	https://www.scopus.com/pages/publications/105013936827
3	Dr. Prateek Verma	AI in diagnostic radiology: Clinical applications and case-based insights	AI in diagnostic radiology: Clinical applications and case-based insights	-	https://www.scopus.com/pages/publications/105012911111