

5.7.1 Academic Research

Faculty members of the CSE department are actively involved in cutting-edge research across a wide range of domains, including Machine Learning, Cryptography, IoT, Artificial Intelligence, Image Processing, Software Engineering, Networking, Data Science, Blockchain, and more.

A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc

- A total of 86 research articles were published and presented by the faculty in various technical journals and conferences in the past 3 years.

Sl. No.	Academic year	Books	Book chapters	Journals		Conferences		CSI convention	Total
		International/ National	International	International	National	International	National		
1	2024-2025	-	-	1	-	-	-	-	1
2	2023-2024	-	-	28	-	-	-	-	28
3	2022-2023	-	-	31	-	-	-	-	31
4	2021-2022	-	-	11	-	-	-	-	11
TOTAL									86

ACADEMIC YEAR -2021-2022			
Details of Research Publications			
Journal Publications			
Sl.No	Name of the Faculty	Title of the Paper	PublicationDetails(Link, ISSN,Year & Volume)
1.	Ms. Amitha.S	1.Detection of Masked face Using OpenCV and Tensorflow 2.Conversion of Image to Excel using OCR Technique	1. https://www.irjmets.com/uploadedfiles/paper//issue_7_july_2022/28536/final/fin_irjmets1658514183.pdf July 2022, Volume 4, ISSN-2582-5208 2. https://www.irjmets.com/uploadedfiles/paper/issue_7_july_2022/28205/final/fin_irjmets1658976943.pdf July 2022, Volume 4, 3743-3747, ISSN- 2582-5208
2.	Mrs.Shalini K V	Real Time Face Mask Detector Using Machine Learning	https://zenodo.org/records/6825030 June 2022, Volume 7, 1056-1059, ISSN- 2456-2165
3.	Ms.Darla Swathi	Seat Occupancy Detection using Machine Learning	https://ijcrt.org/papers/IJCRT2207176.pdf July 2022, Volume 10, 378-380, ISSN- 2320-2882
4.	Ms. Sandya A Kulkarni	1.Student Marks Prediction using Machine Learning Techniques.	1. https://ijcrt.org/papers/IJCRT2207282.pdf July 2022, Volume 10, 25-30, ISSN- 2320-2882 2. https://ijcrt.org/papers/IJCRT2207310.pdf

		2.Text Summarization of COVID Data using Machine Learning Techniques	ISSN-2320-2882, 328-332
5.	Mrs.R.S.Geetha anjali	1 . Emotion Recognition of students during project review 2.Design and development of a framework for building a messaging application (DMgram) with alert system	1. https://ijcrt.org/papers/IJCRT2207324.pdf ISSN- 2320-2882, July 2022, Volume 10 2. https://ijcrt.org/papers/IJCRT2207356.pdf July 2022, Volume 10, 730-733, ISSN- 2320-2882
6.	Ms. Nagaveni Nimbal	Deletion of duplicate Files & Images using Hashing Algorithm	https://ijsred.com/volume5/issue4/IJSRED-V5I4P22.pdf July-Aug 2022, Volume 5, 205-208, ISSN-2581-7175
7.	Ms. Nita Meshram	1.Advanced Navigation system and Detection of speed breakers. 2.Dynamic Pricing SAAS Application with students data management using cloud computing	1. https://ijsred.com/volume5/issue4/IJSREDV5I4P17.pdf August 2022, Volume 5,150-154, ISSN- 2581-7175 2. https://www.ijrti.org/papers/IJRTI2211058.pdf Volume 7, Issue 11, ISSN: 2456-3315

ACADEMIC YEAR -2022-2023

Details of Reserch Publications

Journal Publications

Sl.No	Name of the Faculty	Title of the Paper	Publication Details(ISSN,Year & Volume)
1	Dr. K.Venkata Rao	1.Real Time Sign Language Recognition using Computer Vision 2.Smart Shoe for the Blind (IRJMETS)	1. https://ijrpr.com/uploads/V4ISSUE5/IJRPR12873.pdf ISSN 2582-7421, Vol 4, no 5, pp 1607-1612 May 2023 2. https://www.irjmets.com/uploadedfiles/paper/issue_5_may_2023/38377/final/fin_irjmets1683476807.pdf ISSN: 2582-5208, May 2023, Volume 5, 672-679
2	Ms. Sandya A Kulkarni	1.Literature Survey on Virtual Reality Applications (IRJMETS) 2.Machine Learning based model for prediction of Neurodevelopment disorder (IJCRT) 3.Machine Learning based model for prediction of	1. https://www.irjmets.com/uploadedfiles/paper/issue_12_december_2022/32331/final/fin_irjmets1671611181.pdf ISSN-2582-2022, December 2022, Volume 4 2. https://www.ijcrt.org/papers/IJCRT2304190.pdf ISSN: 2320-2882 April 2023, Volume 11, 580-584 3. https://ijcrt.org/papers/IJCRT2212217.pdf ISSN: 2320-2882 December 2022, Volume 10, 113-117

		Autism Spectrum disorder (IJCRT)	
3	Ms. Amitha.S	1. Smart Traffic Management for Ambulance 2. Develop a system for electric vehicle recognition using Machine Learning (IJCRT)	1. https://kssem.edu.in/images/naac_2022_CRI TERIA3_170727922 3256.pdf ISSN: 2582-5208, April 2023, Volume 5, 6072-6075 2. https://ijcrt.org/papers/IJCRT2212148.pdf ISSN: 2320-2882, December 2022, Volume 10, 366-368
4	Ms. Jayasubha. J	1. Detection of Adulteration in Fruits using Machine Learning 2. A Literature review on fabrication of an electronic device to prevent on-road wheeling for two wheelers by International Journal of Research and Reviews	1. https://ijcrt.org/papers/IJCRT2305243.pdf ISSN: 2320-2882, May 2023, Volume 11, 855-861 2. https://ijrpr.com/uploads/V4ISSUE5/IJRP R12624.pdf ISSN: 2582-7421, May 2023, Volume 4, 1135-1138
5	Ms. Nagaveni Nimbai	1. Underwater Object Detection based on improved CNN (IJRTI) 2. Mulberry Leaf Disease Detection (IJISRT)	1. https://www.ijrti.org/papers/IJRTI2304247.pdf ISSN: 2456-3315, April 2023, volume 8, 1503-1512 2. https://ijisrt.com/mulberry-leaf-disease-detection ISSN: 2456-2165, April 2023, volume 8
6.	Ms. Nita Meshram	1..Detection of SARCOMA in Bone (IJCRT) 2..Voice Based Email for Visually Impaired (IRJMETS)	1. https://ijcrt.org/papers/IJCRT2212431.pdf ISSN: 2320-2882, December 2022, Volume 10, 899-901 2. https://www.irjmets.com/uploadedfiles/paper//issue_1_january_2023/32762/final/fin_irjmets1672907526.pdf ISSN: 2582-5208, April 2023, Volume 5, 6437-6454
7	Ms. Kavitha. K S	1. Research on Decentralized E-COMMERCE using Blockchain (IRJMETS) 2. NFT Market Place DAPP (IRJMETS)	1. https://www.irjmets.com/uploadedfile/paper/issue_5_may_2023/38161/final/fin_irjmets1683279504.pdf ISSN: 2582-5208, May 2023, Volume 5 2. https://ijsred.com/volume5/issue6/IJSRED-V5I6P123.pdf ISSN: 2581-7175, Volume 5 Issue 6, Nov- Dec 2022
8	Ms.Sushmitha Suresh	1. Image based Tomato leaf disease prediction using Deep Learning (IRJMETS) 2. SMS based Hazardous Gas leakage Detection system	1. https://www.irjmets.com/uploadedfiles/paper/issue_4_april_2023/37157/final/fin_irjmets1682745306.pdf ISSN: 2582-5208, April 2023, Volume 5, 5599-5605 2. https://www.irjmets.com/uploadedfiles/paper/is

		using GSM	sue_4_april_2023/37122/final/fin_irjmets1682592917.pdf ISSN: 2582-5208, April 2023, Volume 5, 5051-5053
9	Ms. Meena. G	1.IOT and ML in agriculture for Optimisation of Irrigation and Application of Pesticides(IRJMETS) 2.Virtual Assistance for pothole detection (IRJMETS)	1. https://www.irjmets.com/uploadedfiles/paper/issue_4_april_2023/37410/final/fin_irjmet_s1682836845.pdf ISSN: 2582-5208, April 2023, Volume5, 5965-5970 2. https://www.irjmets.com/uploadedfiles/paper/issue_4_april_2023/37121/final/fin_irjmets1683024902.pdf ISSN: 2582-5208, April 2023, Volume5, 6660-6663
10	Ms. Chandana. V S	1.Smart Agriculture System using IOT (IRJMETS) 2.Forest fire detection response system (IRJMETS)	1. https://www.irjmets.com/uploadedfiles/paper/issue_5_may_2023/38282/final/fin_irjmets1683473458.pdf ISSN: 2582-5208, May 2023, Volume 5, 728-731 2. https://www.irjmets.com/uploadedfiles/paper/issue_12_december_2022/32411/final/fin_irjmets1672250921.pdf ISSN: 2582-5208, April 2023, Volume 4
11	Ms.Prasanna. N	1. Driver Behavioral Recognition using CNN (IRJMETS) 2. To Design and Implement a training module for Yoga Intelligence (IRJMETS)	1. https://www.irjmets.com/uploadedfiles/paper/issue_1_january_2023/32794/final/fin_irjmets1673602795.pdf ISSN: 2582-5208, January 2023, Volume 5, 633-637 https://www.irjmets.com/uploadedfiles/paper/issue_5_may_2023/38467/final/fin_irjmets1683578564.pdf ISSN:2582-5208, May 2023, Volume5
12	Ms. Punitha.M R	1.Attendance Tracking System using RFID (IRJMETS) 2.Low Cost Real Time Water Quality Monitoring System(IRJMETS)	1. https://www.irjmets.com/uploadedfiles/paper/issue_12_december_2022/32103/final/fin_irjmets1670952898.pdf ISSN: 2582-5208 April 2023, volume 4, 2.ISSN:2582-5208, April 2023, Volume5, 6981-6985
13	Ms.Tejaswini.M S	1. Classification and Analysis of Medical Images (IJCRT) 2. Fake Product Identification using Block Chain (IRJMETS)	1. https://www.irjmets.com/uploadedfiles/paper/issue_4_april_2023/37607/final/fin_irjmets1683187456.pdf e-ISSN: 2582-5208, Volume:05/Issue:04/April-2023 2. https://www.irjmets.com/uploadedfiles/paper/issue_4_april_2023/37607/final/fin_irjmets1683187456.pdf

			ue 5_may_2023/39066/final/fin_irjmets1684037489.pdf ISSN: 2582-5208, May 2023, Volume5, 1-4
14	Ms. Ambuja K	1. Strawberry leaf and fruit Pest detection using Deep Learning (IJSREM) 2. Recognition of Crops Pest Based on Deep Learning Mode (IRJMETS) 3. Early Diabetes Prediction using Machine Learning (IJPRSE)	1. https://ijsrem.com/download/strawberry-leaf-and-fruit-pest-detection-using-deep-learning/ ISSN: 2582-3930, April 2023, Volume 7, 1-10 2. https://www.irjmets.com/uploadedfiles/paper/issue_12_december_2022/32462/final/fin_irjmets1671956025.pdf ISSN: 25825208, December 2022, Volume 4, 13091312 3. https://journal.ijprse.com/index.php/ijprse/article/view/830 ISSN: 2582-7898, May 2023, Volume 4, 24-28
15	Ms. Nivedita.A	Helmet Detection and Number Plate Recognition (IJSRED)	https://ijsred.com/volume6/issue3/IJSRED-V6I3P24.pdf ISSN: 2581-7175, May-June 2023, Volume 6, 163-166

ACADEMIC YEAR -2023-2024

Details of Reserch Publications

Journal Publications

Sl.No	Name of the Faculty	Title of the Paper	Publication Details(ISSN,Year & Volume)
1.	Dr. K.Venkata Rao	1. Indian currency recognition system for visually impaired people using Machine Learning 2. IOT based Animal Detection system 3. A Study on Machine Learning Approaches for Enhanced Quality of Service and Security in Computer Networks Applications	1. https://www.jetir.org/papers/JETIR2405287.pdf May 2024, Volume 11, 673- 678 ISSN- 2349-5162 2. https://www.jetir.org/view?paper=JETIR2405494 May 2024, Volume 11, 805- 809 ISSN- 2349-9249 3. https://www.researchgate.net/publication/375593536_A_Study_on_Machine_Learning_Approaches_for_Enhanced_Quality_of_Service_and_Security_in_Computer_Network_Application ISSN: 2278-0181, Vol. 12 Issue 10, October-2023
2.	Ms. Amitha.S	1. MELODY MIXER: Music Generation using Deep Learning. 2. Smart Crop: Agriculture Crop Recommendation Based	1. https://tijer.org/tijer/papers/TIJER2401003.pdf ISSN 2349-9249, January 2024, Volume 11, Issue 1 2. https://tijer.org/tijer/viewpaperforall.php?p

		on future Demand	aper=TIJER2401008 ISSN: 2349-9249 , Volume 11 Issue 1, January-2024
3	Ms. Jayasubha. J	1.FOODIE FREDDY:Surplus Food Donation Android App 2.Classification Of Garbage Using Deep Learning And IOT	1. http://www.ijetjournal.org/IJET-V10I3P5.pdf ISSN: 2395-1303, Volume 10 Issue 3, May 2024 2. https://tijer.org/tijer/papers/TIJER2402050.pdf ISSN 2349-9249, Volume 11, Issue 2, February 2024
4	Ms. Nagaveni Nimbal	1.Bluetooth Enabled Finger Print Locking System 2.Sepsis Prediction	1. https://www.jetir.org/view?paper=JETIR2401063e ISSN: 2349-5162, Volume 11 Issue 1 January-2024 2. https://www.jetir.org/papers/JETIR2401094.pdf ISSN-2349-5162, Volume 11, Issue 1, January 2024
5	Ms. Nita Meshram	1.Automatic detection and classification of diabetic eye disorder 2.Automatic visual system to detect drowning incidents in swimming pools	1. https://ijnrd.org/viewpaperforall.php?paper=IJNRD2401039 ISSN:2456-4184, Vol.9, Issue 1, page no.a342-a345, January-2024 2 https://www.jetir.org/papers/JETIRGG06026.pdf ISSN-2349-5162, Volume 11, Issue 5,May 2024
6	Ms.Supriya Suresh	1.A PUF based light weight and secure mutual authentication system for remote keyless entry mechanisms 2. Dementia Predictor	1. https://www.ijrsred.com/special-issues/ncastem-2024/NCASTEM24-01.pdf ISSN : 2581-7175 2. https://www.ijrsred.com/special-issues/ncastem-2024/NCASTEM24-12.pdf ISSN : 2581-7175
7	Ms.Kavitha. K S	1. Asthma prediction and Monitoring. 2.Forensic Face Sktech Construction and Recognition	1. https://www.researchgate.net/publication/378821413_Asthma_prediction_and_monitoring DOI:10.4103/ijaai.ijaai_39_23 2. https://www.jetir.org/view?paper=JETIR2405455 ISSN: 2349-5162, Volume 11 Issue 5, May-2024
8	Ms.Sushmitha Suresh	1.Home Security system with Energy Harvesting 2.Stress and Mental Health detection using machine learning 3.A Study on Machine Learning Approaches for Enhanced Quality of Service and Security in Computer Networks Applications	1. https://www.ijrsred.com/special-issues/ncastem-2024/NCASTEM24-15.pdf ISSN : 2581-7175 2. https://www.ijraset.com/research-paper/stress-and-mental-health-detection DOI Link: https://doi.org/10.22214/ijraset.2024.62048 3. https://www.researchgate.net/publication/375593536_A_Study_on_Machine_Learning_Approaches_for_Enhanced_Quality_of_Service_and_Security_in_Computer_Networks_Applications ISSN: 2278-0181, Vol. 12 Issue 10, October-

			2023
9	Ms. Meena.G	1.Pregnancy Risk Detection using Machine Learning 2.JARVIS: Just A Rather Very Intelligent System	1. https://www.ijsred.com/special-issues/ncastem-2024/NCASTEM24-13.pdf ISSN : 2581-7175 2. https://www.ijsred.com/special-issues/ncastem-2024/NCASTEM24-18.pdf ISSN : 2581-7175
10	Ms.Chandana.V S	1.Land Registry using Blockchain 2.Life expectancy post thoracic surgery using Machine Learning	1. http://www.ijetjournal.org/IJET-V10I3P8.pdf ISSN: 2395-1303, Volume 10 Issue 3, May 2024 2. https://www.ijsred.com/special-issues/ncastem-2024/NCASTEM24-19.pdf ISSN : 2581-7175
11	Ms.Prasanna. N	1.End point Security and Surveillance using Zero Trust 2.Finding missing persons using AI	1. http://ijsred.com/special-issues/ncastem-2024/NCASTEM24-14.pdf ISSN : 2581-7175 2. https://www.ijsred.com/special-issues/ncastem-2024/NCASTEM24-16.pdf ISSN : 2581-7175
12	Ms.Punitha. M R	Prediction of Wine Quality Using Machine Learning	https://tjjer.org/tjjer/papers/TIJER2401002.pdf ISSN 2349-9249, Volume 11, Issue 1, January 2024
13	Ms. Belji T	Indisight: Indian Monument recognition	https://www.jetir.org/papers/JETIR2405497.pdf ISSN-2349-5162, Volume 11, Issue 5,May 2024
14	Ms. Bindu K.P	1.Captionify: Bridging the gap between vision and language with Neural Networks 2.Crime Rate Detection Using Machine Learning	1. https://www.ijraset.com/research-paper/captionify-bridging-the-gap-between-vision-and-language-with-neural-networks 2. https://doi.org/10.22214/ijraset.2024.61513 https://www.jetir.org/papers/JETIR2405498.pdf ISSN-2349-5162, Volume 11, Issue 5,May 2024
ACADEMIC YEAR -2024-2025			
Details of Reserch Publications			
Journal Publications			
Sl.No	Name of the Faculty	Title of the Paper	Publication Details(ISSN,Year & Volume)
1.	Ms. Nagaveni Nimbal	Machine Learning Techniques for Crop Yield Prediction	https://twistjournal.net/twist/article/view/564 Vol. 19 No. 4 (2024)