

## Sri Sai Ram Engineering College

### Department of Information Technology

Name : Ms. K.R. SARADHA	
Designation:	Associate Professor
Qualification:	M.E., (PhD)
Area of Specialization:	Wireless sensor network, IOT, Cloud computing, Machine learning
Experience:	Teaching: 15 Yrs. UG: - 15
	Industry: -NIL
No. of workshop / Conferences / FDP attended :	10 / 12 / 32
Publication :	Journal National: - NIL International: 1
	Conference National: NIL International: 9
Membership :	International Association of Engineers member, IAENG, IEEE Member
Achievements :	Certified Python Programmer, from Cranes Software International Ltd

## **Workshop / Conferences / FDP attended : 10 / 12 / 32**

### **PUBLICATIONS**

1. S Susila Sakthy TP Rani, KR Saradha, FR Nithish, V Kannan "PhysioAI-Smart Physiotherapy Solutions Driven by AI Technology" Advances in Artificial Intelligence and Machine Learning in Big Data Processing: Second International Conference, AAIMB 2024, Chennai, India, December 12–13, 2024, Proceedings, Part I
2. Saradha K. R, S. Sakthi, Dakshatha, V. V and R. V, "Smart AR Navigation: Enhancing Campus Wayfinding with Augmented Reality," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-7, doi: 10.1109/ICCCT63501.2025.11019523.
3. Mehul K, V R Kanagavalli, K R Saradha *et al.*, "Gen AI Driven FAQ Chatbot Using Advanced RAG Architecture for Querying Annual Reports," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11020025.
4. K. R. Saradha, S. Sakthy S, A. A and D. M, "Urban Water Demand Prediction System Using LSTM," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11020461.
5. S. S. Sakthy, R. Rani, K. R. Saradha, S. A. Kumar, A. R. K. Kumar and V. M. Bala, "Promoting Eco-Friendly Behaviour Through a Credit-Driven Waste Management App for Waste Reduction (GO-GREEN)," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-5, doi: 10.1109/ICCCT63501.2025.11020259.
6. S. S. Sakthy, T. P. Rani, K. R. Saradha, I. V. Madumitha, H. A. Khan and V. Manikandan, "Automated Medicine Dispenser Assistant (AMDA)," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-5, doi: 10.1109/ICCCT63501.2025.11019012.
7. Susila Sakthy S, Rani T. P, Saradha K. R, T. M, S. S and Y. S, "Augmented Reality for Children on Autism Spectrum," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11019675.
8. K. R. Saradha, B. N, D. K. M and J. K, "3D Rover Mapping for Precision Farming," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 1-6, doi: 10.1109/ICCCT63501.2025.11019988.
9. Saradha K R and S. S. Sakthy, "A Comprehensive Survey on Energy-Efficient Wireless Sensor Network Protocols for Real-Time Applications," *2025 International Conference on Computing and Communication Technologies (ICCCT)*, Chennai, India, 2025, pp. 01-07, doi: 10.1109/ICCCT63501.2025.11018906.
10. Susila Sakthy, S., Rani, T.P., Saradha, K.R., Nithish, F.R., Kannan, V. (2026). PhysioAI -

- Smart Physiotherapy Solutions Driven by AI Technology. In: Ramachandran, G., Dao, NN., Jhanjhi, N.Z., Muthukrishnan, A., Duraivelu, H. (eds) *Advances in Artificial Intelligence and Machine Learning in Big Data Processing*. AAIMB 2024. *Communications in Computer and Information Science*, vol 2653. Springer, Cham. [https://doi.org/10.1007/978-3-032-13026-6\\_2](https://doi.org/10.1007/978-3-032-13026-6_2)
11. Saradha K R, Punitha R, Aishwarya N.S and M. Rathishree, "Cursor Control Based on Eyeball Movement Using Deep Learning," 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India, 2023, pp. 1-5, doi: 10.1109/ICCEBS58601.2023.10448773.
  12. Saradha K R, Kavin T, Udhaya kumar G, A K. K. U. A, G. S and G. A. Macriga, "Cybug – The Malicious File Detecting Software," 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India, 2023, pp. 1-7, doi: 10.1109/ICCEBS58601.2023.10448596.
  13. S. Prathibha, K. R. Saradha, M. Shyamkumar, M. R. B. Kumar and P. Arathi, "Ultra-Modern Walking Stick Designed For The Blind," 2023 International Conference on Networking and Communications (ICNWC), Chennai, India, 2023, pp. 1-7, doi: 10.1109/ICNWC57852.2023.10127473.
  14. K. R. Saradha, R. S. M, R. Saranya and S. R, "Sentimental Analysis to Detect Mental Illness," 2022 *1st International Conference on Computational Science and Technology (ICCST)*, CHENNAI, India, 2022, pp. 1031-1034, doi: 10.1109/ICCST55948.2022.10040460.
  15. Soma Prathibha , Saradha K R , Jothika S and Dharshini S, Tongue Diagnosis using CNN for Disease Detection *International Journal of Electrical and Electronics Research (IJEER)*, Volume 10, Issue 4 | Pages 817-821 | e-ISSN: 2347-470X
  16. S. Prathibha, K. R. Saradha, P. Sharmila and S. Kaveya, "AI and Web Application in Medicine Delivery Drones," 2022 *International Conference on Applied Artificial Intelligence and Computing (ICAAIC)*, Salem, India, 2022, pp. 48-53, doi: 10.1109/ICAAIC53929.2022.9792902.
  17. Soma Prathibha; Saradha K N; Shakthi R; Sindhuja V; Roshna N, "Diabetic Foot Ulcer Analysis System," 2022 *International Conference on Communication, Computing and Internet of Things (IC3IoT)*, Chennai, India, 2022, pp. 1-5, doi: 10.1109/IC3IOT53935.2022.9767922.
  18. S. Prathibha, K. R. Saradha, M. R. Kumar and J. S. Jaiswal, "Attentive Amigo - Student's alertness Indicator app," 2022 *International Conference on Communication, Computing and Internet of Things (IC3IoT)*, Chennai, India, 2022, pp. 01-05, doi: 10.1109/IC3IOT53935.2022.9767926.
  19. K. R. Saradha, S. Prathibha, M. R. Sivakumar and N. B. S. A. Sandeep, "Collaborative Web Search Using Group Conceptual Index," 2021 *4th International Conference on Computing and Communications Technologies (ICCCT)*, Chennai, India, 2021, pp. 552-554, doi: 10.1109/ICCCT53315.2021.9711771.

20. K.R.Saradha, J.Ranjani, D.Thamizhselvi, Sruthi K.R, Nikhitha, , Agricultural E Commerce Website In India, Ilkogretim Online - Elementary Education Online, 2021; Vol 20 (Issue 1): pp. 5010-5015 <http://ilkogretim-online.org> doi: 10.17051/ilkonline.2021.01.535

## **PATENT**

1. Advanced RAG-based Gen-AI chatbot for annual report FAQs – Published on 7/11/2025
2. Artificial Intelligence and IoT based Automatic smart health care system to monitor and avoid Blood pressure and Lung cancer to avoid it early stages for healthy life for all ages using WSN, image processing and deep learning algorithms - Published on 25/11/2022
3. Sign Language Conversion into Voice and text by CNN - Published on 15/11/2024

## **EVENT ORGANISED**

1. NO CODE AND LOW CODE MACHINE LEARNING TECHNIQUES - EXPERTS FROM MINDTREE - 19-12-2022 to 21-12-2022, Organising committee
2. Shamrock 4.0 xtrofest '22 - 7/10/2022 - coordinator
3. AR/VR BOOT CAMP - Experts from Green Rain studios - (16/5/2022 - 18/5/2022) - Event coordinator
4. Technovacion 2022 - IEEE SPAX SPONSORED COORDINATOR - 16/5/22 - 18/5/22 - coordinator
5. Predictive healthcare data analytics - Industry sponsored program - 7/3/22 - 9/3/22 - coordinator
6. ATAL FDP 6 Days Program - Cyber security on Cloud computing Technologies 30/10/2023 - 04/11/2023

## **FDP Attended**

1. FDP on "TRICKS AND TECHNIQUES FOR RESEARCH ARTICLE"; THESIS WRITING USING MODERN E-TOOLS" on 2 nd August 2023 jointly organised by Mechanical engineering Department of Baseliros Mathews II College of Engineering and Institution of Engineers(I) Kollam Local centre.
2. 5 days FDP on Microsoft Azure AI Engineer Associate conducted by ICT Academy on 28th Mar 2023 to 1st April 2023 at SA Engineering college
3. 5 days FDP on IOT basics conducted by Information Management and Emerging Engineering department from 24/4/23 to 28/4/23 at Sri Sairam Engineering College
4. 12 weeks FDP on Cloud Computing at NPTEL AICTE during Jan 2023 - Apr 2023
5. 6 days FDP on Microsoft Azure AI fundamentals from 13 June 2022 - 18 June 2022 at Sri Sairam Engineering College
6. Faculty Development Program on "MERN Stack Web development" under TechSaksham Program from "23rd Sep 2024 - 27th Sep 2024".

## **Reviewer**

1. As Reviewer for IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) organized at Mysuru Royal Institute of Technology, Mandya, India on 24th and 25th October 2025 in association with IEEE Mysore Subsection and IEEE Bangalore Section.
2. As Reviewer for IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023
3. As Reviewer in 1st International conference on Advancements in Smart computing and Information security (ASCIS 2022) organised by Faculty of computer Applications, Marwadi University, Rajkot, Gujarat during Nov 24-26 2022.

## **Online Courses attended**

1. Awarded NPTEL *Domain Scholar in Programming and Discipline Star* by NPTEL.
2. Successfully completed NPTEL courses on Cloud computing, Modern C++, Industrial IOT 4.0, Machine learning, Object Oriented System Development, Internet of Things
3. Successfully completed NITTTR modules
4. Successfully completed the online courses Ruby (Jan 2022), PHP & MySQL (June 2022), R programming (June 2022) Organised by Spoken Tutorial project, IIT Bombay