Name : VARALAKSHMI.K varalakshmi.ai@sairam.edu.in	
Designation:	Assistant Professor (Artificial Intelligence & Data Science)
Area of Specialization :	Image Processing,Deep Learning,Machine Learning.
Experience	Teaching : 17.6 years. Research : Nil Industrial Experience: 01

No of Workshop/ FDP attended:	No of Workshop		No of FDP	
	10		15	

Publications:	Conference		Journal	
	National	International	National	International
	3	2		16

Patents	National	International
	04	Nil

Professional body membership	IEEE Membership IAENG Membership
Awards and Achievements	--

Publications 1 Journal	1. K.Varalakshmi, "Pioneering Multiple Genomic and Proteomic Data using miRNA and transcription factor for Gene Disease spotting" in International Journal of Computer Engineering and Applications, ISSN no: 2321-3469, Volume 12, May 2018.
	2. K.Varalakshmi, "Provides security in cloud using multicloud and slicing algorithm" in International Journal of Computer Engineering and Applications, ISSN no: 2321-3469, Volume 12, May 2018.
	3. K.Varalakshmi, "IOT Integrated Forest Fire detection and prediction using node MCU", International Journal of Electronics, Engineering and Applications, ISSN no: 2321-3447, Page no: 28, Volume 9(1), 2021.
	4. K.Varalakshmi, "Voice and Gesture based home automation system", International Journal of Electronics, Engineering and Applications, ISSN no: 2321-3447, Page no: 8, Volume 9(1), 2021.
	5. K.Varalakshmi, "Signal and Voice controlled home automation system" in anbesak, ISSN No: 0378-4568, Volume 50, Issue 4(VI), Oct 2021.
	6. K.Varalakshmi, "A Novel Hybrid Clustering Algorithm for Lifetime maximization and Throughput Enhancement in Wireless Sensor Network" in Industrial Engineering Journal, ISSN No: 0970-2555, Page no: 259-265, Volume 15, Issue 10, Oct 2022.
	7. K.Varalakshmi, "IOT usage in Mobile System and Ecosystem" in Journal of Science, Computing and Engineering Research, ISSN No: 2708-1079, Page no: 12-18, Volume 3, Issue 5, Oct 2022.
	8. K.Varalakshmi, "Facial Manipulation detection using U-NET" in International Journal of Creative Research Thoughts", ISSN No: 2320-2882, Page no: 210, Volume 10, Issue 6, June 2022.
	9. K.Varalakshmi, "IOT and Google assistant based Wireless notice board" in International Journal of Creative Research Thoughts", ISSN No: 2320-2882, Page no: 80, Volume 10, Issue 6, June 2022.
	10. K.Varalakshmi, "Optimization of Internet signals using QOS prediction in artificial intelligence" in International Journal of Creative Research Thoughts", ISSN No: 2320-2882, Page no: 67, Volume 10, Issue 6, June 2022.
	11. K.Varalakshmi, "Stock market price prediction using random forest and support vector machine" in International Journal of Creative Research Thoughts", ISSN No: 2320-2882, Page no: , Volume 10, Issue 6, June 2022.
	12. K.Varalakshmi, "Real Time Facial Recognition based Students Proctoring System using KNN algorithm" in Journal of Science, Computing and Engineering Research, ISSN No: 2708-1079, Page no: 97- 103, Volume 6, Issue 4, April 2023.
	13. K.Varalakshmi, "Multipurpose File Transfer and File Inquiry" in Journal of Science, Computing and Engineering Research, ISSN No: 2708-1079, Page no: 90-96, Volume 6, Issue 4, April 2023.
	14. K.Varalakshmi, "IOT based Health Machine for Covid 19 with Matlab" in Journal of Science,

Computing and Engineering Research, ISSN No: 2708-1079, Page no: 80-85, Volume 6, Issue 4, April 2023.

15. K.Varalakshmi, "Computer-Aided Design for skin disease Identification and Categorization Using Deep Learning" in Advanced Engineering Science, ISSN no: 20963246. June 2023.

16. Experimental_Demonstration_of_Retinal_Image_Analysis_and_Disease_Detection_using_Deep _Learning_based_Detection_and_Classification, 2025 6th International Conference for Emerging Technology (INCET) Karnataka, India. May 23-25, 2025

17. R. Yugha, V. Vinodhini, J. R. Arunkumar, K. Varalakshmi, G. Karthikeyan and G. Ramkumar, "An Automated Glaucoma Detection from Fundus Images based on Deep Learning Network," *2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)*, Dharan, Nepal, 2022, pp. 757-763, doi: 10.1109/I-SMAC55078.2022.9987254.

18. A. T. S, K. Varalakshmi, M. Sugadev, K. Anguraj, R. Chadge and H. Attar, "A Logical Emotion Recognition System Based on Human Speech by Using Hybrid Deep Learning Procedures," *2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)*, Chennai, India, 2024, pp. 1-6, doi: 10.1109/ICSES63760.2024.10910299.

19. E-Voting:Decentralized Voting System Based On Ethereum Blockchain Technology K.Varalakshmi, S.R.HareeshAnand ,GoddumuriRaju, B.Kamalesh, 2024 IJCRT | Volume 12, Issue 8 August 2024 | ISSN: 2320-2882

20. First-Aid Medikit Assistant Chatbot Using Nlp Techniques, K.Varalakshmi, Sowmiya.B , Swethasree S, Thanuja.V, 2024 IJCRT | Volume 12, Issue 8 August 2024 | ISSN: 2320-2882

21. Developing A Gesture Based Video Calling For Deaf And Mute People Using Microsoft Kincet, R.Savithiri B.Priya C.Kalaiarasi K.Varalakshmi , V.Dharma Prakash, 2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN:2320-2882

22. Finger Vein authentication System Using Deep learning In Alexnet Algorithm S.R.Noble Lourdhu Raj 1 K.Varalakshmi, 2 B.Priya3 S.S.Vasantha Raja4 C.Kalaiarasi5, 2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN:2320-2882

23. HANDLING MISSING DATA TO IMPROVE GENERALIZATIONPERFORMANCEO MACHINELEARNING CLASSIFIER R.Savithiri., C.Kalaiarasi, K. Varalakshmi , A.Vijayanarayanan,2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN: 2320-2882

24. CAR LANE DETECTION USING NUMPY WITH OPENCV PYTHON Kalaiarasi.C, Varalakshmi.K, R.Savithiri, S.R.Noble Lourdhu Raj, M.Janaki, 2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN: 2320-2882

25. A SECURE FRAME WORK FOR GOVERNMENT TENDER ALLOCATION USING BLOCK CHAIN, Dr.R.Palson Kennedy, K.Varalakshmi. , S.S.Vasantha Raja, A.Vijayanarayanan B.Priya, 2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN: 2320-2882

26. A SMART ROBOT FOR INSPECTION IN DISASTER AREAS, K.Varalakshmi , V. Dharma Prakash A.Vijayanarayanan, B.Priya , S.S.Vasantha Raja, 2023 IJCRT | Volume 11, Issue 9 September 2023 | ISSN: 2320-2882

1. Presented a paper in the National Level Conference held at St.Peter's University Title-Achieving Anonymity and Traceability in WMN Using a Unique Architecture.

2 Conference		2. Presented a paper entitled Energy Aware Scheduling Of Map Reduce Jobs For Big Data Applications held at Jayaram College of Engineering and Technology
		3. Presented a paper in the National Level Conference held at Sri Lakshmi Ammal College Of Engineering titled" Genomic and Proteomic Knowledge Base (GPKB) for Gene Disease Identification and Medical Diagnosis using MF, CC, BF, MicroRNA and Transcription Factors"
		4. Presented a paper in the International Conference held at PERI Institute of Technology titled "Pioneering Multiple Genomic and Proteomic Data using miRNA and transcription factor for Gene Disease spotting".
		5. Presented a paper in the International Conference held at PERI Institute of Technology titled "Provide Security in Cloud using Multi-Cloud and Slicing Algorithm"
3.Patent		1. Title of the patent: "Internet of Things and Artificial Intelligence based automatic herbicide spraying system". IPR Application no: 202241008443: Dated: 25/2/2022.
		2. Title of the patent: "Facial Manipulation Detection using U-Net". IPR Application no: 202241059826: Dated: 18/11/2022.
		3. Title of the patent: "Real time facial recognition based student proctoring system using KNN algorithm". IPR Application no: 202241059827: Dated: 18/11/2022
		4. Title of Patent: PROACTIVE AI POWERED RAILWAY SAFETY, IPR Application no: 202441076177: Dated: 2024/10/18
		5. Title of Patent: IOT BASED CHILLI PLANT SCANNING AND DISEASE DETECTING DEVICE, IPR Application no: 186505: Dated: 2024/9/27
		6. Title of Patent :Signwave integrated sign language translation wristband and smart ring with on board voice output, IPR Application no: 202541034129: Dated: 2025-07-25
		7. Title of Patent : Early Alert Illuminating the path to early breast cancer detection IPR Application no: 2025541114291A: Dated: 2026-01-16
		8. Title of Patent : Vendors Cart With Solar Powered Mist Spraying System Ipr Application no: 406764-001 : Dated: 2024-02-04

LIST OF SEMINAR/SHORT TERM COURSES/FDP/WORKSHOP ATTENDED

- Attended Faculty Development Program held in L & T Infotech.
- Attended National Workshop on Cyber Security & Cryptographic tools held at GKM College of Engineering & Technology.
- Attended One day workshop on "Persuasive Research Promotion Strategies "Organized by Kings Engineering College in association with CSI,SAE,ISME,IETE & ICT Academy.
- Attended the Three Days Faculty Development programme on "Automata Theory and Compilers" held at S.A. Engineering College.
- Attended One day Workshop on "Exploring patent Drafting & Filing aspects "held at Prathyusha Engineering College.

EDUCATIONAL QUALIFICATION

Degree	Year of Passing	Discipline	University & Institution	Percentage & Class Obtained
Ph.D	Pursuing	CSE	SRM Institute of Science and Technology, Chennai	Pursuing
M.E	2012	CSE	St.Peter's University, Chennai	8.1 –First Class
B.E	2005	CSE	Anna University, Meenakshi Sundararajan Engineering College, Kodambakkam	7.4-First Class
HSC	2001	Bio-Maths	St.Helen's Girls Hr.Sec.School	80% -First Class
SSLC	1999	Bio-Maths	St.Helen's Girls Hr.Sec.School	88%-First Class

Declaration: I hereby declare that all the information mentioned above is true to my knowledge and I have all supporting documents for the facts mentioned above.