

CURRICULUM VITAE

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QUALIFICATION

- Ph.D in Information and Communication Engineering, Anna University,2024
- M.Tech in Computer Science and Engineering, SRM University,2013
- B.E in Computer Science and Engineering,Nandha Engineering College,Anna University,2005

PROFESSIONAL EXPERIENCE : 19 Years 4 Months

1. August 2022 – till date :
Associate Professor, Sri Sairam Engineering College, Chennai, Tamil Nadu, India.
2. August 2021 – August 2022:
Assistant Professor, Sri Sairam Engineering College, Chennai, Tamil Nadu, India
3. Aug 2006 – August 2022:
Associate Professor, SKR Engineering College, Chennai,Tamil Nadu,India

RESEARCH PUBLICATIONS (PEER-REVIEWED JOURNALS & CONFERENCE PROCEEDINGS)

1. Purushottama Rao K, S Uma, Vijayaraj N,Jagannathan J,Sathya T,Tamilmani G,"Optimized gated spatiotemporal graph attention network based diagnosis of facial expression through video games," Pattern Recognition,Volume 175, <https://doi.org/10.1016/j.patcog.2025.112991>,2025.(SCI)
2. Sathya T,Tharun A K,Arun S,Lalith Aravind P Y, Saraswathy, "**Helmet Detection in Two Wheeler Using Image Processing**," 2025 International Conference on Computing and Communication Technologies (ICCCT), Chennai, India, 2025, pp. 1-4, doi: 10.1109/ICCCT63501.2025.11020144.(Scopus Indexed)
3. Angel Barakka. J, T. Sathya, Kujani T, J. Malathi and Akshaya. S, "**Real- Time Driver Emotion Recognition Using CNN-LSTM for Enhanced Road Safety and Accident Prevention**," 2025 International Conference on Computing and Communication Technologies (ICCCT), Chennai, India, 2025, pp. 1-7, doi: 10.1109/ICCCT63501.2025.11020146 .(Scopus Indexed)

4. Sathya T & Sudha S(2023) **“An Adaptive Fuzzy Ensemble Model for Facial Expression Recognition Using Poplar Optimization and CRNN”**.IETE Journal of Research,70(5),4758-4769. <https://doi.org/10.1080/03772063.2023.2220691>.(SCI)
5. T. Kujani, Bhuvanya R, Sathya. T, P. Arivubrakan, V. Usha and Thangaselvi. R, **“Quantum Resnet18 for Classifying and Predicting the Maize Leaf Diseases,”** 2024 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI), Chennai, India, 2024, pp. 1-6, doi: 10.1109/RAEEUCCI61380.2024.10547895.(Scopus Indexed)
6. T. Kujani, V. Dhilip Kumar, Bhuvanya. R, A. Kavitha, Sathya. T and Sathiya Priya. S, **“Dermoscopic Skin Lesion Classification using Color Features Based on Fine-Tuning of Resnet50 and Densenet121 Transfer Learning Models,”** 2024 International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS), Hassan, India, 2024, pp. 1-7, doi: 10.1109/IACIS61494.2024.10721835.(Scopus Indexed)
7. T. Kujani, P. Arivubrakan, V. Usha, Alex David. S, R. Umamaheswari and Sathya T, **“Detection of Sleep Apnea using Cat Swarm Optimization with TabNet versus CNN Model,”** 2024 International Conference on Integration of Emerging Technologies for the Digital World (ICIETDW), Chennai, India, 2024, pp. 1-5, doi: 10.1109/ICIETDW61607.2024.10939827. (Scopus Indexed)
8. Sathya, T., Sudha, S. **“OQCNN: optimal quantum convolutional neural network for classification of facial expression”**. Neural Computing & Applications **35**, 9017–9033 (2023). <https://doi.org/10.1007/s00521-022-08161-w>.(SCI)
9. Sathya. T, Berlinda A J, Gayathiri Varsha A S and Vidhusha M, **“Mobile Application Enabling Citizen Report Street Problems,”** 2023 International Conference on Circuit Power and Computing Technologies (ICCPCT), Kollam, India, 2023, pp. 15-19, doi: 10.1109/ICCPCT58313.2023.10245383.(Scopus Indexed)
10. Sathya T, Ajay K, Suretha S, Dhamotharakkannan M and Vidhusha M, **“Core Concepts of Engineering in Augmented Reality,”** 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), Chennai, India, 2023, pp. 1-5, doi: 10.1109/ICCEBS58601.2023.10448691. .(Scopus Indexed)
11. Sathya T, Angel Barakka J, Valarmathi V, Berlinda A. J, Gayathiri Varsha. A. S and Divyadharshini K, **“Assessment of Student Attentiveness in Classroom Environment Using Deep Learning,”** 2023 International Conference on Circuit Power and Computing Technologies (ICCPCT), Kollam, India, 2023, pp. 26-30, doi: 10.1109/ICCPCT58313.2023.10245194. .(Scopus Indexed)
12. Kujani, T., Alex David, S., Sathya, T., Arivubrakan, P., Shanmuga Priya, S. (2023). **“Efficient Brain Tumor Detection Using VGG-16 and ResNet50 Transfer Learning Models”**. In: Ranganathan, G., EL Alloui, Y., Piramuthu, S. (eds) Soft Computing for Security Applications. ICSCS 2023. Advances in

Intelligent Systems and Computing, vol 1449. Springer, Singapore. https://doi.org/10.1007/978-981-99-3608-3_32. **.(Scopus Indexed)**

13. V. Valarmathi, T. Sathya, C. Buvana and S. Srinithi, "**Animal Welfare and Health Abided System with Integrated Website**," 2022 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICDSAAI55433.2022.10028957. **.(Scopus Indexed)**
14. V. Valarmathi, T. Sathya, J. Nirmala, S. Sivarajeswari, R. M. Prasanth and V. Srihari, "**Design and Implementation of Secured Contactless Doorbell using IOT**," 2022 International Conference on Computer, Power and Communications (ICCPC), Chennai, India, 2022, pp. 187-191, doi: 10.1109/ICCPC55978.2022.10072073. **.(Scopus Indexed)**
15. Sathya T, Kujani T, Bhuvanya R, Uma S, "**Non Verbal Communication analyzing the malpractice in examination- An overview**" 2018 International Journal of Engineering and Technology, UAE, 2018, pp. 7(2), pp. 227-229. **.(Scopus Indexed)**

PATENT FILLING DETAILS

1. Published a patent on "**Helmet Monitoring and Detection using image processing**" on 13/06/2025.
2. Published a patent on "**Advanced Career Builder**" on 02/05/2025.
3. Published a patent on "**CIVICFUSION: Transforming Urban Governance through Digital Cooperation**" on 21.03.2025.
4. Published a patent on "**Gesture based Control Method for Online Meeting Forums and Smart Equipment**" on 25.10.2024.
5. Published a patent on "**Cataract and Glaucoma Detection System**" on 17.02.2023.
6. Published a patent on "**A novel algorithm of active learning based on machine learning vector algorithm**" on 17.1.2020.

GUEST LECTURES

- Delivered lecture on CS2351- Artificial Intelligence at SKR Engineering College 12/12/2014 AN Session during the Faculty Development Training Programme organized by CSE Department approved by Anna University, Chennai -600025
- Delivered lecture on Microsoft Excel and Email creation during the Two week Training program on Information Communication Technology skills funded by Ministry of Panchayat Raj, Govt of India and Rural Development and Panchayat Raj Development, Government of Tamil Nadu between 11.11.2013-16.11.2013 and 18.11.2013 to 22.11.2013 to the elected representatives of panchayat presidents and secretary at SKR Engineering College.

CERTIFICATION

1. Certificate for Completion of **Leap program at IIT Madras**
2. NPTEL Online certification on Data Science for Engineers
3. NPTEL Online certification on Introduction to Internet of Things
4. NPTEL Online certification on Introduction to Database Systems
5. NPTEL Online certification on Object Oriented System Development using UML,Java and Patterns
6. NPTEL Online certification on Programming, Data Structures and Algorithms in Python
7. Successfully completed the “Programming Domain” certification under NPTEL.

NITTT MODULES

- Successfully completed all eight modules of the National Initiative for Technical Teachers Training (NITTT).

BOOKS/ BOOKCHAPTER

- Published Book titled on “Object Oriented Programming” (Anna University Syllabus)
- Published Book titled on “Data Structures Design”.(Anna University Syllabus)

ACADEMIC/ RESEARCH HONORS

- Received a Certificate of Recognition from the Centre for Research, Anna University, for publishing research work in a Q1-ranked journal.
- Recognized as an NPTEL Discipline Star for outstanding performance and dedication in NPTEL courses.

INDUSTRIAL TRAINING

- Participated in one day Xposure organized by ICT Academy supported by PhantomFX held on 8th Jan 2025.
- Undergone 2 weeks training at **Object Frontier Solutions in Java Programming** and certified to train students.
- Trained 5 placed Students at Object **Frontier Solutions** for 3 months during the month of Feb 2016 May 2016.

FUNDED PROJECTS

- Received Rs.50000 form UBA for the title “Cataract and Glaucoma Detection System”.

CONSULTANCY PROJECTS

- Served as a facilitator for the ‘Azestar Intern Training Program’ at ‘Azentio Software Private Limited’ from 5/02/24 to 7/02/24.

REVIEWER

- Acted as a reviewer in the Journal of “**Quantum Information Processing**”. (Springer)
- Acted as a reviewer in the Journal of “**Social Network Analysis and Mining**”. (Springer)

ADMINISTRATIVE ACTIVITIES

- Serving as a member of the Autonomous syllabus framing committee.
- Served as an ISO coordinator in the Department.
- Served as **NBA and NAAC Co-Ordinator** for the Department
- Maintained the “**Automatic College Management System**” Software for students attendance, test performance and SMS monitoring.
- Served as **Time table Co-ordinator** for the Department
- Served as **Class Incharge** for the Department.
- Acting as Module Co-ordinator for the Department.
- Coordinated Two days National level workshop on “Ethical Hacking & Cyber Security” in SKR Engineering college on 27th Sep 2012 & 28th Sep 2012.

PROFESSIONAL MEMBERSHIP

- IEEE-98022441
- ISTE-LM57476- Lifetime Member



Dr.T.Sathya