

**SRI SAI RAM ENGINEERING COLLEGE, CHENNAI-44**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Name & Photo :	Dr.S. GURUSUBRAMANI 
Designation:	Associate Professor
Qualification :	ME., Ph.D
Area of Specialization :	Machine Learning, Cloud Computing
Experience :	Teaching: UG: 8.5 YEARS PG:16 YEARS Industry : 2.5 YEARS(Training)
No.of workshop/Conferences/FDP attended:	11/8/33
Publications :	<b>Journals</b> National:-4 (UGC + Others) International : 9 Conferences, International Journals: 4 National : 5 International : 4 <b>Patents: 15</b>
Research Guidance :	NIL
General :	<ul style="list-style-type: none"> <li>● Acted as Symposium Coordinator(2012)</li> <li>● Acted as Placement Coordinator</li> <li>● Acted as Project &amp; Mini-project Coordinator</li> <li>● Acted as a Resource Person for various programmes in IGNOU study center &amp; Chinmaya Vidyalayas, Chennai</li> <li>● Acted as a Judge for the Project Exhibition in the dept of ECS at Alpha College.</li> <li>● Acted as a Resource person for “<b>Introduction to Python Programming</b>” @ Ingenuity</li> <li>● Coordinator for the National Conference NCS1CC-2021</li> <li>● Acted as a Session Chair in theNational Conference - NCSICC-2021</li> </ul>

	<ul style="list-style-type: none"> <li>● Reviewer Board Member in MAT Journals</li> <li>● Reviewer in ICCST -2022</li> <li>● IEEE XTREME 16.0 - Proctor</li> <li>● Authored 4 Book Chapters</li> <li>● College Website Coordinator</li> <li>● Class Coordinator</li> <li>● Year Coordinator</li> <li>● Placement Facilitator</li> <li>● Patent Coordinator</li> </ul>
Staff Achievements:	<ul style="list-style-type: none"> <li>● Produced Centum results in the following subjects: <ul style="list-style-type: none"> <li>● 1.WebGraphics(twice)</li> <li>● 2.HRM (Thrice)</li> <li>● 3.Computer Networks (once)</li> <li>● 4.Computer Programming (once)</li> <li>● 5. Ecommerce (Twice)</li> <li>● 6.Computer organization(Twice)</li> <li>● 7.OOAD(Once)</li> </ul> </li> <li>● Published paper in reputed International Journals.</li> <li>● Presented papers in various National and International Conferences.</li> <li>● ICT Academy Certified Trainer in C Programming</li> <li>● CISCO Virtual Internship Best Mentor-2021</li> <li>● Professional Member in IFERP</li> <li>● Life Member in ISTE - LM - 131581</li> <li>● Senior Member in IEEE - 98092023</li> </ul>

**Professional Experience:**

Sl. No	College/Organization	Designation	Period		Total period
			From	To	
1.	IETE	Trainer	Aug1997	May 2000	2.11Years
2.	Alpha Arts & Science College	Lecturer – Computer Science Department	June 2000	Jan 2007	5.7 Years
3.	Sri Sai Ram Engineering College	Lecturer	Jan 2007	Aug 2009	2.6 Years
4.	Sri Sai Ram Engineering College	Assistant Professor	Aug 2009	Aug 2014	5 Years
5.	Sri Sai Ram Engineering College	Associate Professor	Aug 2014	Till date	11.5 Years

## **JOURNALS & PUBLICATIONS:**

1. Published paper in International Journal IJMSEA (International Journal for Mathematical Sciences and Engineering Applications), Vol III, March 2009, titled **“Intelligent Test case Optimization using Hybrid Genetic Algorithm”**.
2. Published a paper in Indian Journal of Public Health Research & Development, Volume9, Issueno. 3, March2018 – SCOPUS Indexed, titled **“Probabilistic Broadcast Protocol for Data Gathering using neighbor nodes in Mobile IoT”**
3. Published a paper in Journal of Green Engineering(JGE),Volume10,Issueno.10,October2020– SCOPUS Indexed, titled **“An Efficient Timing Attack Management in VANETs using Monte Carlo Markov Chain Sampling”**
4. Published a paper in ICACSE 2020 - Journal of Physics: Conference Series 1964 (2021) 042062, IOP Publishing, doi:10.1088/1742-6596/1964/4/042062 - SCOPUS indexed, July 2021 titled **“Secure Cloud Backup for Data Sources Based on Blockchain”**
5. Published a paper in ICACSE 2020 - Journal of Physics: Conference Series 1964 (2021) 042095, IOP Publishing, doi:10.1088/1742-6596/1964/4/042095 - SCOPUS indexed, July 2021 titled **“A Data Centre Configurable Data Mining Document Management Information System”**
6. Published a paper in ICCST 2022 1st International Conference on Computational Science and Technology, IEEE Xplore, doi:10.1109/ICCST55948.2022.10040418 - SCOPUS indexed, Nov 2022 titled **“Artificial Intelligence and Face Emotion Prediction Based Training for Autism Kids”**
7. Published a paper in ICCST 2022 1st International Conference on Computational Science and Technology, IEEE Xplore, doi:10.1109/ICCST55948.2022.10040359 - SCOPUS indexed, Nov 2022 titled **“A Review of Digital Twin Leveraging Technology, Concepts, Tools and Industrial Applications”**
8. Published a paper in ICCST 2022 1st International Conference on Computational Science and Technology, IEEE Xplore,doi:10.1109/ICCST55948.2022.10040479-SCOPUSindexed,Nov2022 titled **“Generative Adversarial Network-a Comparative Analysis”**
9. Published a paper in ICAIS 2023, Third International Conference on Artificial Intelligence and Smart Energy, IEEE Xplore, doi:10.1109/ICAIS56108.2023.10073667- SCOPUS indexed, March 2023 titled **“Enhancing Reliability in Multi-Path Mobile Wireless Sensor Network”**
10. Published a paper in AECE 2023, Third International conference on Advancement in Electronics & Communication Engineering, IEEE Xplore, doi: 10.1109/AECE59614.2023.10428380 titled **“Distributed Deep Learning Attack Detection Framework for Cyber-Attacks in IoT Network”**
11. Published a paper in 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS),IEEE Xplore, doi:10.1109/ICCEBS58601.2023.10449043,SCOPUSindexed,Dec 2023. titled **“Missing Child Tracking System Using Deep Learning Methodologies”**
12. Published a paper in 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS),IEEE Xplore, doi: 10.1109/ICCEBS58601.2023.10449047 ,SCOPUS indexed, Dec

2023. titled “Mask Detection and Temperature Monitoring System”
13. Published a paper in 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS),IEEE Xplore, doi:DOI:10.1109/ICPECTS62210.2024.10780383 ,SCOPUS indexed, Dec 2023. titled “Analyze and Highlight the Abnormal Activities While Recording in CCTV”
  14. Published a paper in 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS),IEEE Xplore, doi: 10.1109/ICCEBS58601.2023.10448901,SCOPUS indexed, Dec 2023. titled “MediID: Medicine Identification System Displaying Simplified Uses of the Medicine Using Python”
  15. Published a paper in 2025 International Conference on Computing and Communication Technologies (ICCCT),IEEE Xplore, doi: 10.1109/ICCCT63501.2025.11020059, SCOPUS indexed, June 2025. titled “Moto VANET Using Machine Learning Models”
  16. Published a paper in 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS),IEEE Xplore, doi:10.1109/ICPECTS62210.2024.10780067 ,SCOPUS indexed, Dec 2023. titled “Brain Tumor Segmentation Using Image Processing In MRI”
  17. Published a paper in 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), ,IEEE Xplore, doi:10.1109/IC3IoT60841.2024.10550212 “SCRAP – Smart Character Recognition and Prediction AI”
  18. Published paper in International Journal, Journal of Imaging informatics in Medicine, 2025 Aug;38(4):2146-2169. doi: 10.1007/s10278-024-01343-z. Epub 2024 Dec 9.”Deep Convolutional Generative Adversarial Network for Improved Cardiac Image Classification in Heart Disease Diagnosis”
  19. Published paper in International Journal, 2024 Neural Computing and Applications 36 (14), 8181-8197 “Enhancing cardiac diagnostics through semantic-driven image synthesis: a hybrid GAN approach”

#### **CONFERENCES & WORKSHOP:**

1. Presented paper in National conference – National conference on “Cryptography and Network Security”,18th & 19th February’09,titled“**Enhancing WEP using FCICT**” held in VIT University, Vellore.
2. Presented paper in international Conference - International Conference, Competency Building Strategies in Business & Technology for sustainable development 22nd & 23rd September 2011,titled “**A reconfigurable instruction cell Architecture for wireless communication – wimax** held in SIMS, Chennai
3. Presented paper in international Conference - ICICT’09, 16TH – 18th Dec2009,titled“**Information Flow in Heterogeneous Networks Using Location Based Tracking Method**” held in Sri Sai Ram Engineering College, Chennai.
4. Presented paper in international conference - 3rdInternational Conference On “Impact of economic crisis in global business scenario” -24th and 25thSeptember2009,titled“**A study on sourcerouting**”

**protocol dynamically in comparison with on-demand routing protocol”** held in SIMS, Chennai.

5. Presented paper in National conference – National Conference on Knowledge Engineering (NCKE’12)- 20th April 2012, titled **A Comparative - Measurement Study of Enhanced Rivest Cipher -IV (ERC4) with Stream and Block Ciphers** held in SRM Valliammai Engineering College
6. Presented paper in National conference – NCACSA” 12 on 10.03.2012, titled **“Enhancing the Impregnability of text messages at multiple levels”** held in R.M.D Engineering College.
7. Presented paper in National conference – National Conference On Recent Trends In Computing & Communications-10th April 2015,titled **“A local position of recognition of node spoofing attacks in Wireless networks”** held in Sri Sai Ram Engineering College, Chennai.
8. Presented paper in National conference - NCRTCC-17-23rd march, 2017, titled **“Performance Estimate Of Evaluating Cloud hub with universal INFLUX and services”** held in Sri Sai Ram Engineering College, Chennai
9. Attended a seminar as a part of NCICT’07 on 10th March 2007.
10. Attended a one day workshop on **“KM-Best Practices”** at SSEC.
11. Attended a Workshop on "Art of Journal and Thesis Writing", R&D Dept, Sri Sai Ram Engineering College.
12. Attended a Tutorial session on **“Cloud Computing and semantic web”** at ICISC’13 at SSEC on 4th and 5th January 2013.
13. Attended a one day workshop on **“Research Methodology”** at Sathyabama University on 18th July 2015.
14. Attended a Workshop on **“Talent Expo”** conducted at Hotel Taj coromandel,Chennai
15. Attended a one day workshop organized by IBM in Centrinotechnologies at LeRoyal Meridian
16. Participated in a one day Conclave for "E-Learning" at Taj Towers., Chennai.
17. Participated in a 2 day conclave for National level conclave on **“Cyber security”** at Jeppiaar Engg College
18. Participated in a 1day AICTE sponsored workshop on **NVEQF** at Pondicherry Engineering college
19. Participated in a two day workshop on" Introduction on E-learning in Education" Tamilnadu Dr. M.G.R Medical University, Chennai
20. Participated in a One day workshop at LTI MIND TREE in the Domain "OpenAI - CHATGPT"on 25.05.2023
21. Participated in a One day workshop on Design Thinking on 28.07.2023

#### **STAFF DEVELOPMENT PROGRAMS:**

1. FDP on **“Work life balance for engineering and management faculty”** at SIMS on 16th to 22nd February 2012.
2. AICTE Sponsored National Level Seminar on **“Cloud Computing and Mining”**at SSEC on 26th and 27th September 2013.
3. Participated in a FDP on **“Cloud Computing”** conducted by TCS on 5th May 2014.
4. FDP on **“ Software Testing ”** conducted by TCS on 14th November 2014.
5. SDP on **“ Hadoop based Data Analytics”** at SSEC on 30th to 2ndJuly2016.
6. FDP on **“Data Science and Big Data Analytics' 'conducted** by ICT Academy at SSEC on 11th

Sept 2017 to 15<sup>th</sup> Sept 2017.

7. FDP on **“Introduction to Cloud Computing”** conducted by ICT Academy at DCE from 03rd June 2019 to 04<sup>th</sup> June 2019.
8. Attended a One day National Cyber Safety & Security Standards Summit on 21<sup>st</sup> June 2019 at Anna University
9. FDP on **“Cyber security infrastructure Configuration”** conducted by ICT Academy at St.Joseph’s College of Engineering from 22nd July 2019 to 26<sup>th</sup> July 2019.
10. AICTE Sponsored FDP on **“AI & Advanced ML using Data Science”** conducted at S.A.College of Engineering from 22nd Nov 2019 to 05<sup>th</sup> Dec 2019.
11. A Webinar on **“Deep Learning based Neural Network Systems”** conducted at G.K.M College of Engineering on 03<sup>rd</sup> Aug 2020.
12. FDP on **“Cyber security ”** conducted by **ATAL** at St. Joseph’s College of Engineering from 24th Aug 2020 to 28<sup>h</sup> Aug 2020.
13. STTP on **“SOA & its Applications”** conducted by RMK Engineering College from 23<sup>rd</sup> November 2020 to 01<sup>st</sup> Dec 2020.
14. AICTE–ISTE Sponsored Induction/Refresher FDP on **“Feature Analysis using AI/ML”** conducted by SKCET, Coimbatore from 07<sup>th</sup> Dec 2020 to 12<sup>th</sup> Dec 2020.
15. FDP on **“Artificial Intelligence”** conducted by **ATAL** at SKCET, Coimbatore from 31<sup>st</sup> Aug 2020 to 04<sup>h</sup> Sept 2020.
16. FDP on **“Stress Management”** conducted by **ATAL** at Government Engineering College, Srirangam from 01st Feb 2021 to 05th Feb 2021.
17. FDP on **“Cloud Computing”** conducted by **ATAL** at NITTTR, Chennai from 08th Feb 2021 to 12th Feb 2021.
18. STTP on AICTE Sponsored **“Speech & Image Processing using Deep Learning Techniques”** conducted by Annamalai University from 03rd March 2021 to 09th March 2021.
19. STTP on AICTE Sponsored **“Green IOT for Smart Environment”** conducted by Panimalar Institute of Technology from 15th March 2021 to 20th March 2021.
20. MOTP Online orientation Training Programme for Mentors 05.07.2021-09.07.2021, 5 days at NITTTR, Chennai
21. ATAL-FDP Artificial Intelligence 20.09.2021-24.09.2021, 5 days, School of Computer Sciences, Maharashtra
22. ATAL-FDP, AR/VR and its Applications, 04.10.2021-08.10.2021, 5 days, Sri Sairam Engineering College, Chennai
23. ATAL-FDP ,AI Natural Language Processing, 29.11.2021-03.12.2021, 5 days, University College of Engineering, Kakinada
24. Attended an AICTE-ISTE FDP, Design Thinking Pedagogical Training, 16.12.2021-22.12.2021, 7 days, GRIET, Hyderabad, Telangana.
25. AICTE FDP Universal Human Values(UHV-I) from 31st May to 4th June 2021.
26. Attended an International FDP ,Recent Trends & Challenges in AI, IOT ,& BLOCKCHAIN, 09.02.2022 - 18.02.2022, 10 Days at Easwari Engineering College, Chennai.
27. Attended an International Virtual PDP in DataScience, 29.08.2022-10.09.2022, 13 Days at SRMIST, Ramapuram Campus, Chennai
28. Attended an FDP on **“Future Generation Communication & Networking”**, 02.01.2023-07.01.2023, for 6 days at JEC, Chennai
29. NITTT MODULES-7/8 Modules Completed during Feb-March 2023
30. Attended an FDP on **“ML and its Real-Time Applications”**, 06.03.2023-10.03.2023, for 5 days at MEC, Puducherry

31. AICTE FDP Universal Human Values(UHV-II) from 16th October to 23rd October 2023.
32. FDP on Gen AI and its implications at VERIZON on 10th May 2024.
33. FDP on ' ICT for Teaching and Learning 'at NITTTR from 10th June 2024 to 14th June 2024.
34. FDP on “Exploring Wearable Tech and AI Innovations for personalized Healthcare” from 03rd June 2024 to 07th June 2024 at Rajalakshmi Engineering College.
35. FDP on ‘OFFENSIVE SECURITY CONDUCTED BY CYBERHEALS’ from 30/06/2025 TO 05/07/2025 at Sri Sai ram Engineering College.
36. FDP on "The Art and Science of Successful Proposal Writing: Techniques, Strategies, and Best Practices" held during 27th October 2025 to 6th November 2025 organized by the Department of ECE, CSE & IT, CVR College of Engineering, Hyderabad.
37. FDP on ‘Next Generation AI’ from 01st December 2025 to 05th December 2025 at Dr. MGR University.

## **PATENTS:**

1. Filed & Published Indian patent on 12.10.20 the innovation titled “An Automatic Hospital Stretcher That Monitors Vital Data’s of The Patients”. (Application No 202041044322).
2. Filed & Published Indian patent on 12.10.20 the innovation titled “A Machine Learning Based Automated Toilet Cleansing System with Automated Doors”. (Application No 202041044307).
3. Filed & Published Indian patent on 12.10.20 the innovation titled “Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers”. (Application No 202041044323).
4. Filed & Published Indian patent on 23.12.20 the innovation titled “Emotion Recognition Fitness Assistance for Fitness Blenders using Mel Frequency Ceptral Coefficients (MFCC) and spectral Modulation features”. (Application No 202041056021).
5. Filed & Published Indian patent application no.202141005842 on 11/02/2021 titled “VoiceBased Alerting and Assisting Tool for Visually Challenged”
6. Filed & Published Indian Patent application no.202141016303 on 07/04/2021 titled “ Iot Based Safety Monitoring System Using Footwear”
7. Filed & Published Indian Patent application no.202241044519 on 05/08/2022 titled "Design an IoT-driven system uses deep learning for wind-induced pressure prediction on tall buildings”
8. Filed & Published Indian Patent application no.202341034151 on 23/06/2023 titled “Iot-Driven Artificial Intelligence-Based Actual Structure-Health Monitoring And Damage Testing”
9. Filed & Published Indian Patent application no.202341071312 on 03/11/2023 titled “Biometric Authentication And Vulnerabilities”
10. Granted Indian design Patent application no.421852-001 on 19/09/2024 titled “IOT ENABLED SMART WATER LEVEL INDICATING DEVICE.
11. Filed & Published Indian Patent application no.202441075612 on 18/10/2024 titled ”RESCUE VISION : BIOMETRIC FACIAL RECOGNITION FOR MISSING CHILDREN”
12. Filed & Published Indian Patent application no.202441075625 on 18/10/2024 titled “ GAME-BASED PERSONALITY AND CAREER SUGGESTION MODEL USING LSTM”
13. Filed & Published Indian Patent application no.202541051188 on 20/06/2025 titled “SELF-CLEANING SOLAR PANEL WITH INTEGRATED WATER VAPOR CONDENSATION SYSTEM”
14. Granted UK design Patent application no.6480566 on 12/11/2025 titled “ Portable 3D Printer for On-Site Prototyping”.
15. Filed & Published Indian Patent application no.202511104461 on 12/12/2025 titled “ Block chain-Based Academic Credentialing System for Secure and Transparent Verification of Student Records: NEP 2020.