Sri Sairam Engineering College
Department of Information Technology

Name :	**S.Gomathi**
Designation:	**Associate Professor**
Qualification :	**M.Tech., (Ph.D)**
Area of Specialization :	**Image Processing, Deep Learning**
Experience :	**Teaching :16 Yrs. 06 months** **UG: - 16 Yrs 06 months** **PG : - 06 Yrs**
No. of workshop / Conferences / FDP attended :	**FDP : 24** **National Conference: 2** **International Conference:27**

Publication :	**Journal**
	            National : - Nil
	            SCI : 3

	Conference
	            National : 1
	            International : 15

Research Guidance : -	**Nil**
Membership:	**Member in International Associationof Engineers - IAENG (No - 205622)** **Member in International Computer Science and Engineering Society - ICSES (No -3933)** **Member in Institution of Engineers**

	Society(IEI) –M-167108-6. **Member in Life Member, International Society for Technology in Education (ISTE) – LM- 131634** **Member in IEEE – 98091501** **Senior Member in IEEE.**
Achievements:	**Score 100% result in many subjects.**

Area of Specialization

- Operating System

- Data Warehousing & Mining

- Computer Networks

- Data Structures

- Software Architectures

- Cyber Forensics

- Distributed Systems

- Cryptography and Network Security

- Mobile Networks

- Artificial Intelligence

- Medical Image Analysis

FDP Attended

1. Attended a FDP on Oracle Training Course – Java Fundamentals and Programming by Department of Information Technology, at Sri Sairam Engineering College from

2. Attended a FDP on IT6711- Data mining Lab at Jeppiaar SRR Engineering College on 17.06.16 & 18.06.16.

3. Attended a FDP on Grid, Cloud & Data mining conducted by Department of Information Technology, Sri Sairam Engineering College, Chennai from 20.06.16 to 24.06.16.

4. Attended a FDP on TCS – AWS by Department of Placement, Sri Sairam Engineering College, Chennai from 20.06.17 to 24.06.17.

5. Attended a FDP on IOT-Business4.0 & Block chain Technology at TCS - Siruseri on 27.10.2018

6. Attended a FDP on Python Programming by ICTACADEMY at Sri Sairam Institute of technology, Chennai from 29.10.18 and 30.10.18.

7. Attended a FDP on Engineering Teaching Pedagogy and Teaching Learning Process by SIMS, Sri Sairam Engineering College, Chennai from 3.12.2018 – 7.12.2018.

8. Attended a FDP on Renewable Energy Sources by Department of EEE, Sri Sairam Engineering College, Chennai from 22.07.19 – 26.07.19.

9. Attended a FDP on Cryptography and Network Security by Department of Computer Science and Engineering, Panimalar Engineering College, Chennai from 11.05.20-15.05.20.

10. Attended a FDP on Blended and Flipped Learning by NITTTR, Chennai from 24.08.20-28.08.20.

11. Attended a FDP on Artificial Intelligence by Sri Krishna College of Engineering &Technology, Coimbatore from 31.08.20-04.09.20.

12. Attended a STTP on Medical Image Analysis by V.S.B.Engineering College, Karur from 02.11.20 – 07.11.20.

13. Attended a FDP on Inculcating Universal Human Values in Technical Education by AICTE-NewDelhi from 12.07.21 – 16.07.21

14. Attended a FDP on Principles of Artificial Intelligence,Machine Learning, and Deep Learning by AICTE from 26.11.21 – 30.11.21.

15. Attended a Workshop on ART OF RESEARCH by SRI SAIRAM INSTITUTE OF TECHNOLOGY from 23.08.21- 24.08.21

16. Attended a Workshop on Cloud Fog and Edge Computing Platforms for Industrial IOT by MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKAKASI from 25.10.21 – 27.10.21

17. Attended a FDP on Deep Learning & its Applications by Sri Sai Ram Engineering College from 11.07.22 – 15.07.22

18. Attended a FDP on Machine Learning in Healthcare by Sri Sai Ram Engineering College from 09.01.23 – 13.01.23.

19. Attended a FDP on Deep Learning Toolkits and their Diverse Uses by Sri Sai Ram Engineering College from 05.07.23 – 07.07.23.

20. Attended a FDP on AI and NLP Case Studies and Applications by Presidency University from 21/08/2023 to 25/08/2023.

21. Attended a FDP on Cutting Edge Trends in Deep Learning by Sathyabama Institute of Science and Technology from 3.10.2023 to 13.10.2023.

22. Attended a FDP on Programming in Java by NPTEL from Jan 2024 to April 2024.

23. Attended a FDP on Data Analytics with Python for Media Applications by NITTTR from 27/05/2024 to 31/05/2024.

24. Attended a FDP on Data Structures and Algorithms using Java by NPTEL from July 2024 to December 2024.

FDP / Webinars Organized:

1. Organized a FDP on Grid, Cloud & Data Mining conducted by Department of Information Technology, Sri Sairam Engineering College, Chennai from 20.06.16 to 24.06.16.

2. Organized Skill Saathi - National wide Career Counseling Program conducted byICTACADEMY at Sri Sairam Engineering College, Chennai on 08.02.2019.

3. Organized Saitechgrail'19 - Mini Project Expo Conducted by Department of Information Technology, Sri Sairam Engineering College, Chennai on 12.03.2019.

4. Organized a FDP on Augmented Reality and Virtual Reality by Department of Information Technology, Sri Sairam Engineering College, Chennai from 27.05.20 to 29.05.20.

5. Organized a Webinar on Deep Learning by Department of Information Technology, SriSairam Engineering College, Chennai on 27.10.20.

6. Organized a Webinar on Introduction to Machine Learning by Department of Information Technology, SriSairam Engineering College, Chennai on 25th Nov 2021

7. Organized a Webinar Seminar on R Programming by Department of Information Technology, Sri Sairam Engineering College, Chennai on 18th Nov 2022.

8. Organized a Webinar on R Programming by Department of Information Technology, SriSairam Engineering College, Chennai on 18th Nov 2022

9. Organized a Workshop on Mobile Application Development by Department of Information Technology, SriSairam Engineering College, Chennai on 16th and 17th of Nov 2022

10. Organized a Workshop on SpringBoot by Department of Information Technology, SriSairam Engineering College, Chennai on 25th and 26th May 2023

11. Organized a Workshop on Bootcamp on Startup Mentoring by Department of Information Technology, Sri SairamEngineering College, Chennai on 18th and 19th July 2024.

Patent Accomplishments:

Patent Published : 2

Title: My Guider Application in the year 2021.
Title: IoT Based Wearable Medical Health Monitoring Device

International Conferences :

1. Attended tutorial session on "Cloud Computing and Semantic Web" in the International Conference on "Information, Systems and Computing – ICISC'13" in Sri Sairam Engineering College during 4th and 5th January, 2013.

2. Attended tutorial session on "Advanced Computing Technologies" in the "2015 International Conference on Computing and Communications Technologies (ICCCT'15)" in Sri Sairam Engineering College on 26-02-2015.

3. Salman.V, Srivenkatesh.K, **S.Gomathi** "Authenticated Secure Railway Service using Smart Card Technology" International Conference on Advances in Emerging Technology(ICAET'15) held at

Jaya Engineering College on March 28, 2015.

4. Sharmila.R, Solai.A.L, **Ms.Gomathi.S**,"Mobile Heat Control by Using LM35Pct Sensors with LPC2148 Thermostat Microcontroller" International Conference on Emerging Trends in Engineering and Technology held at Chennai on March 27,2016.

5. "Mitigating insider data theft attacks in the cloud" IEEE sponsored International Conference on Science, Technology, Engineering and Management (ICONSTEM-2016) held at Jeppiaar Engineering College on March 30-31, 2016.

6. **S.Gomathi**, R.Varsha Rohini, Shreya P.R, S.Dheeksha **"**Web page design optimisation based on segment analytics**"** International Conference On Computing And Communications Technologies(ICCCT'17) held at Sri Sairam engineering college on February 23-24, 2017.

7. **S.Gomathi,** V.Varsha Rohini, Shreya P.R, S.Dheeksha **"**Conflict Avoidance In E-Commerce Applications" International Conference On Current Trends In Engineering Research (ICCTER- 2017) held at Chennai On March 25, 2017.

8. **S.Gomathi,** V.Aravinthan, M.Sanju, S.Selvam "CASECOP" "International conference on Communication, Computing and Internet of Things – 2018-IC^{3}IoT'18" held at Sri SairamEngineering College on February 15-17, 2018.

9. S.V.Scibi, C.Ramachandran, **S.Gomathi** " Educational Support for Poverty" " International Conference on Innovation, Entrepreneurship and Economy for Sustainable Development -ICIEESD'18 held at Sri Sairam Engineering College on October 10-11, 2018.

10. **S.Gomathi**, M.Divya, P.Ilavarasi, M.Indumathi " IoT based Environmental monitoring system for smart cities" International Conference on Contemporary Engineering and technology 2019 (ICCET)" held at Prince Shri Venkateswara Padmavathy Engineering College on March 09, 2018.

11. **S.Gomathi,** V.Aravinthan, M.Sanju, S.Selvam "CASECOP: A Drone Case for Mobile" "International Conference on Computing and Communication Technologies - ICCCT'19" held at Sri Sairam Engineering College on February 21-22, 2019.

12. **S.Gomathi**, Mukundhan, Monish "Communication for Paralyzed Patients" 9th International Conference on Education, Advance Management and Technology for Sustainable Development held at Sri Sairam Engineering College on 25th and 26th February 2020.

13. **S.Gomathi,** Kavipriya H, Priyadharshini P " Detection of Skin Cancer using Neural Network Analysis" International Conference on Computing, Communications & Control 2020 -ICCCC'2020 held at Sri Sairam Engineering College on 28th & 29th February 20.

14. Swetha, S., Vijayalakshmi, J., & **Gomathi, S**. (2021, December). "Social Distancing and Face Mask Monitoring System Using Deep Learning Based on COVID-19 Directive Measures". In 2021 4th International Conference on Computing and Communications Technologies (ICCCT) (pp. 520-526). IEEE.

15. **Gomathi, S**., & Sudhakar, S. (2021, December). "A Deep Review On Skin Cancer Through Deep Residual Networks". In 2021 4th International Conference on Computing and Communications Technologies (ICCCT) (pp. 464-468). IEEE.

16. **Gomathi, S.,** & Vijayalakshmi, J. (2021, December). "Secure E-Governance System To Preserve Justice And Right Decision Making Using Cloud Computing". In 2021 4th International Conference on Computing and Communications Technologies (ICCCT) (pp. 305-308). IEEE.

17. Sreenivasu, S. V. N., **Gomathi, S.,** Kumar, M. J., Prathap, L., Madduri, A., Almutairi, K., ... & Jayadhas, S. A. (2022). "Dense convolutional neural network for detection of cancer from CT images". BioMed Research International, 2022.

18. **Gomathi, S**., Nishanth, S., & Nikhitha, S. (2022, May). "Skin Disease Classification using Convolutional Neural Network". In 2022 International Conference on Applied Artificial Intelligence and Computing (ICAAIC) (pp. 177-182). IEEE.

19. **Gomathi, S**., Raj, K. V., & Aakash, R. V. (2022, November**).** "Design and Implementation of an

Iot-Based System For Monitoring Nutrients And Irrigation In Agricultural Soil". In 2022 1stInternational Conference on Computational Science and Technology (ICCST) (pp. 786-792). IEEE.

20. Swetha.S., **Gomathi.,S** (2022 April)"Automated Early stage diagnosis of multi-disease prediction using deep learning" In Edge 2022 Conference at Rajalakshmi Engineering College.

21. **Gomathi, S**., Sree, G. N., & Thennilaa, V. S. (2023, April). Smart Searching Product. In 2023 International Conference on Networking and Communications (ICNWC) (pp. 1-5). IEEE.

22. **Gomathi, S**., Tharun Kumar, Tharun Raj. (2023, April). " Proacto – Fall Detection System" Smart Searching Product. In 4th edition of International Conference on Internet of Things (ICIoT 2023) . IEEE.

23. **Gomathi, S**., Hariharan, Siddharthan. (2023, April). "Detection and prevention of credit card fraud using HMM model and Formula based authentication system for secured transactions". International E-Conference on Information, Communication and Networking (ICCICN-2023) IEEE.

24. **Gomathi, S**., Raj, K. V., & Aakash, R. V. (2022, November**). "**Design and Implementation of an Iot-Based System For Monitoring Nutrients And Irrigation In Agricultural Soil**"**. Published in IEEE, DOI:10.1109/ICCST55948.2022.10040340, 14 February 2023.

25. **Gomathi S**;Jayalakshmi D;Haritha S (2024, Jan). "VISUALLY IMPAIRED JOB ALERT PROVIDER APP".Published in IEEE, DOI: 10.1109/RMKMATE59243.2023.10369154, 03 Jan 2024

26. **Gomathi, S**., Punitha, S., & Vijila, S. A. (2023, December). Jackfruit Tree Disease Detection Using Deep Learning. In *2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)* (pp. 01-08). IEEE

27. Arunachalam, N., **& Gomathi, S**. (2023, November). Deep Learning-Based Automated Early-Stage Diagnosis of Multiple Diseases. In *2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE)* (pp. 1-8). IEEE.

National Conferences :

1. S.Gomathi, Pavithra Devi.C, Nandhini Priya.R, Mathangi.N "S.A.F.E (Self-Defense Awareness And Familiarisation Exchange)" " National Conferernce on Smart Innovations in Communications & Computing – NCSICC'18 held at Sri Sairam Engineering College on March27, 2018.

International Journal :

1. Salman.V, Srivenkatesh.K, S.Gomathi, "**Authenticated Secure Railway Service using Smart Card Technology**" published in the CIIT International Journal of emerging Technology in Computer Science & Electronics (IJETCSE) , DOI: WC032011011, Vol 3, No 3, March 2011.

2. Sharmila.R, Solai.A.L, Ms.Gomathi.S," **Mobile Heat Control by Using LM35Pct Sensors with LPC2148 Thermostat Microcontroller**" published in International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 3, Issue 3, March 2016 [GOOGLE SCHOLAR INDEXING].

3. S.Gomathi, R.Varsha Rohini, Shreya P.R, S.Dheeksha "**Web page design optimisation based on segment analytics**" Published in IEEE Xplore, DOI: 10.1109/ICCCT2.2017.7972310,11 July 2017 [Scopus indexed].

4. S.V.Scibi, C.Ramachandran, S.Gomathi " **Educational Support for Poverty**" Published in International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) Vol 8, Special Issue 3, December 2018.[Scopus Indexed].

5. S.Gomathi, V.Aravinthan, M.Sanju, S.Selvam "**CASECOP: A Drone Case for Mobile**" Published in IEEE Xplore, DOI : 10.1109/ICCCT2.2019.8824840. 5 September 2019 [Scopus

indexed].

6. S.Gomathi, Kavipriya H, Priyadharshini P " **Detection of Skin Cancer using Neural Network Analysis**" Published in Journal of Critical Reviews (JCR), Vol 7, Issue 11, 2020, ISSN 2394-5125. [GOOGLE SCHOLAR INDEXING].

7. Swetha, S., Vijayalakshmi, J., & Gomathi, S. (2021, December). **"Social Distancing and Face Mask Monitoring System Using Deep Learning Based on COVID-19 Directive Measures"**. Published in IEEE Xplore, **DOI:** 10.1109/ICCCT53315.2021.9711880 , 18 February 2022.

8. Gomathi, S., & Sudhakar, S. (2021, December). **"A Deep Review On Skin Cancer Through Deep Residual Networks"**. Published in IEEE Xplore, **DOI:** 10.1109/ICCCT53315.2021.9711808 , 18 February 2022 .

9. Gomathi, S., & Vijayalakshmi, J. (2021, December). **"Secure E-Governance System To Preserve Justice And Right Decision Making Using Cloud Computing"**. Published in IEEE Xplore, DOI: 10.1109/ICCCT53315.2021.9711880 , 18 February 2022.

10. Sreenivasu, S. V. N., Gomathi, S., Kumar, M. J., Prathap, L., Madduri, A., Almutairi, K., ... & Jayadhas, S. A. (2022). **"Dense convolutional neural network for detection of cancer from CT images"**. Published in BioMed Research International, 10.1155/2022/1293548, June 2022.

11. Gomathi, S., Nishanth, S., & Nikhitha, S. (2022, May). **"Skin Disease Classification using Convolutional Neural Network"**. Published in IEEE Xplore, DOI:10.1109/ICAAIC53929.2022.9792785, 16 June 2022.

12. Gomathi, S., Raj, K. V., & Aakash, R. V. (2022, November). **"Design and Implementation of an Iot-Based System For Monitoring Nutrients And Irrigation In Agricultural Soil"**. Published in IEEE, DOI:10.1109/ICCST55948.2022.10040340, 14 February 2023.

13. Gomathi, S., Sree, G. N., & Thennilaa, V. S. (2023, April). **"Smart Searching Product"**. Published in IEEE, DOI: 10.1109/ICNWC57852.2023.10127340, 25 May 2023.

14. Gomathi S;Jayalakshmi D;Haritha S (2024, Jan). "**VISUALLY IMPAIRED JOB ALERT PROVIDER APP**".Published in IEEE, DOI: 10.1109/RMKMATE59243.2023.10369154, 03 Jan 2024.

15. Vijayaraj, N., Rajalakshmi, D., Immaculate, P. S., Sathianarayani, B., Rajeswari, S., & Gomathi, S. (2024). **An Innovative approach to Improve the Quality of Pharmaceuticals approach using Cloud Computing**. *EAI Endorsed Transactions on Pervasive Health and Technology*, *10*.

16. Gomathi, S., Punitha, S., & Vijila, S. A. (2023, December). **Jackfruit Tree Disease Detection Using Deep Learning**. In *2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)* (pp. 01-08). IEEE.

17. Gomathi, S., & Arunachalam, N. (2024). **Skin Lesion Prediction and Classification Using Innovative Modified Long Short-Term Memory-Based Hybrid Optimization Algorithm**. *International Journal of Computational Intelligence Systems*, *17*(1), 186.

18. Arunachalam, N., & Gomathi, S. (2023, November). **Deep Learning-Based Automated Early-Stage Diagnosis of Multiple Diseases**. In *2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE)* (pp. 1-8). IEEE.

Book Chapters:

1. Published chapter titled "Targeting and Automation with Digital Analytics" in Management Analytics and Software Engineering,ESN Publications, India,ISBN:978-81-950305-5-2,2021

2. Published chapter titled "Geo Spatial Technology" in Recent trends in Engineering and Technology,Sri Sairam Engineering College,ISBN:978-8-19471-498-9

Book Publication:

1. Published a Book titled "R Programming for Statistical Analysis: by Ms.Anitha Jebamani,Assistant Professor, Ms.S.Gomathi,Assistant Professor, Ms.V.Narmadha, Assistant

Professor, Alpha International Publication, India,ISBN:978-93-5762-478-7,2023

Online Certifications

1. Completed Machine learning courses on Machine Learning: Clustering & Retrieval, Machine Learning: Regression, Machine Learning Foundations: A Case Study, Approach, Machine Learning: Classification, The Sustainable Development Goals – A global, transdisciplinary vision for the future, Machine Learning: Clustering & Retrieval, Machine Learning: Regression, Machine Learning: Classification in Coursera.

2. Completed 8 Modules in NITTTR conducted by AICTE.
3. Completed NPTEL course in Database Management Systems and DataMining.
4. Completed NPTEL Programming Domain

Acheivements:

1. Received Best Faculty Advisor Award 2021 from The Institution of Engineers Society(IEI) in the year 2021, 2023 and 2024.
2. Received Academic Excellence Award 2023 from The Institution of Engineers Society(IEI) in the year 2023.
3. Act as a Reviewer in 4th International Conference on Computing and Communications Technologies (ICCCT).
4. Act as a Reviewer in International Conference on Advances in Emerging Trends in Computer Applications (ICAETC-2023),
5. Industry Trainer for Azestar Intern training program on JAVA at Azentio Software Private Limited, Prince Infocity II for 3 Batches (10-01-2023 to 12-01-2023 & 14-03-2023 – 16-03-2023, 26.02.24 to 28.02.24)

Conference Reviewer:

1. Reviewer for 4th International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT- 2021) on December 10-11, 2021 at Nirma University
2. Reviewer for 4th International Conference on Computing and Communication Technologies(ICCCT'21) on December 16-17, 2021 at Sri Sai Ram Engineering College.
3. Act as a Journal Reviewer in Cluster Computing.

Academic/Professional Membership:

- Life Member, International Association of Engineers - IAENG (No - 205622)
- Life Member, International Computer Science and Engineering Society - ICSES (No -3933)
- Life Member, Institution of Engineers Society(IEI) –M-167108-6.Life
- Senior Member in IEEE.
- Member in IEEE - 98091501
- Life Member, International Society for Technology in Education – LM-131634

Other Activity:

- Oracle Trainer - Java Fundamentals and Programming from 2016 onwards.
- ICT Academy Certified Trainer for c Programming from 2018 onwards.
- IEI Department Student Coordinator
- IIRS Department Coordinator
- Department Exam Cell In charge