Sri Sai Ram Engineering College

Department of Computer Science and Engineering

Faculty Profile

Name & Photo:	N.Gopinath
Qualification:	B.Tech, M.E, (Ph.D)
Area of Specialization:	Wireless Technology, Image Processing, Data Mining and Data Warehousing, Mobile Computing
Year of Experience:	**Teaching:** 11 Years and 03 Months. **Industry**: Nil
No. of Workshops / Conference / FDP Attended:	06/ 14/ 24

Publications:	**Books:** 04
	Book Chapters: 06
	Patents: 04
	Journal:
	  ❖ Scopus: 09
	  ❖ UGC / AICTE approved Journal : 10
	Conference:
	  ❖ National: 07
	  ❖ International: 07

Roles:	**College Level:** ❖ Digital Ambassador- Overall Incharge ❖ Executor - UBA ❖ Executor - Skillrack

	Department Level: ❖ Digital Ambassador ❖ Skillrack Incharge ❖ Video Class Coordinator ❖ NPTEL Coordinator ❖ ICT Academy Department Incharge ❖ SDG Coordinator
Memberships:	❖ IEEE (Senior & Professional Member) ❖ ISTE (Life Time Member) ❖ IFERP (Professional Member) ❖ AIENG (Professional Member)
Resource Person:	❖ Acted as a Resource Person for 2 weeks Technical Workshop on Basic Computer Operations, File Processing, MS Word Packages for Sub-Inspectors and Inspector cadres in Greater Chennai Police officials at Meenakshi College of Engineering, Chennai. ❖ Acted as a Resource Person for one day Technical Workshop on C Programming for Sai ram Matriculation School Students, Tambaram ❖ Acted as a Resource person for a Session in 7 Days Faculty Training and Development Program on Problem Solving and Python Programming approved by Anna University at Sri Sai Ram Engineering College from 11.6.18 to 18.6.18 ❖ Acted as a Resource person for Sairam RAISE CSE-Skill Development Program for Technical staff on Python Programming.

Staff Achievement:	❖ Successfully completed all the 8 modules under Phase -I of National Initiative for Technical Teachers Training conducted by AICTE in the year 2022-2023 . ❖ Successfully completed the course titled "Cloud Computing" with a score of 78% (Elite) conducted by NPTEL in October 2019. ❖ Successfully completed the course titled "Introduction to Human Computer Interaction" with a score of 61% (Elite) conducted by NPTEL in March 2018. ❖ Produced 100% Result in Object Oriented Analysis and Design. Produced more than 95% result in Computer Networks, Data Mining and Data Warehousing, High Speed Networks, Information Security, Computer Programming.

Professional Experience:

Sl. No	College / Organization	Designation	Period	
			From	To
1	SKP Institute of Technology, Thiruvannamalai	Lecturer	01.07.2011	01.07.20 12
2	SKP Institute of Technology, Thiruvannamalai	Assistant Professor	02.07.2012	15.08.2015
3	Sri Sai Ram Engineering College, Chennai	Assistant Professor III	16.06.2016	Till Date

Proposal Submitted:

❖ Proposed a project titled " REVERSE OSMOSIS PLANT FOR WATER TREATMENT IN PRIMARY SCHOOL" through Unnat Bharat Abhiyan (UBA) for Primary school in Somangalam, Tamil Nadu.

❖ Proposed a project titled " e-AGRO APP" through Unnat Bharat Abhiyan (UBA) for farmers in Sairam UBA Adopted villages..

Publications:

Book Publications:

1. Mr. **N. Gopinath**, Dr. A. Chinnasamy, Mr. P. Ashok and Mr. D. Sathish Kumar published a book titled "**Mobile Computing**" through CBA Publisher with ISBN number: 978-93-80430-60-7

2. Dr. M. Suresh Anand, Mr. **N. Gopinath** and Dr. M.V. Ishwarya published a book titled "**Virtual & Augmented Reality**" through Technical Publications with ISBN number: 978-93-90770-81-6

3. **Mr. N. Gopinath**, Dr. N. Kumar, Mrs. K. Sathya and Dr. M. Nithya published a book titled "**Concepts of Human Computer Interaction**" through Blue Ink Publications with ISBN number: 978-93-92473-06-7

4. Dr. N. MuraliMohan, **Mr. N. Gopinath**, Dr. G. Dinesh Kumar, Dr. P. Sudha published a book titled "**The Internet of Things in Civil Engineering**" through Kalaivani Publications with ISBN number: 978-81-95434-32-9

Book Chapter Publications:

1. **N. Gopinath**, published a Book chapter titled "**Smart Voting System Using Liveness Detection Techniques**" Under the Book titled " Scope of Federated Learning in Next Gen Industrial Systems" With ISBN : 978-93-5777-445-1.

2. **N. Gopinath,** M. Suresh Anand and M.V Ishvarya published a book chapter titled "**Machine Learning for Medical Images**" in Computational Imaging and Analytics in Biomedical Engineering: Algorithms and Applications under AAP series on Digital Signal Processing, Computer Vision and Image Processing by Apple Academic Press exclusive co-publishing with CRC Press (Taylor &Francis Group) with ISBN Number: 9781774914717

3. M. Suresh Anand, M.V Ishvarya, and **N. Gopinath** published a book chapter titled "**Innovations in Artificial Intelligence and Human Computer Interactions in Digital Era**" in Computational Imaging and Analytics in Biomedical Engineering: Algorithms and Applications under AAP series on Digital Signal Processing, Computer Vision and Image Processing by Apple Academic Press exclusive co-publishing with CRC Press (Taylor &Francis Group) with ISBN Number: 9781774914717

4. P. Ashok, **N. Gopinath**, M. Subhashini and S. Ananthi published a book chapter titled " **Real Time Face Detection and Person Tracking using Deep Learning**" in Top 5 Technology Trends in World Transforming Data to Knowledge with ISBN Number: 9789356361621

5. Suresh K.C, Ashok P, **Gopinath N** and Sathish Kumar D published a book chapter titled " **A Machine Learning Approach for Providing Location Aware Service in Mobile Adhoc Network**" in Recent Challenges and Applications of Machine Learning and Data Science with ISBN Number: 9789354377211.

6. S. Deivanayagi, **N. Gopinath**, Dr. V. Nagaraju published a book chapter titled " **Vehicular Ad-Hoc Networks**" in Emerging Technologies in Engineering Research with ISBN Number: 9789354192111

Patents Publications:

1. Published a patent titled " **IoT based Wearable Health Monitoring and Assisted Living of Elderly People** " with application number 202241037204A in the Indian patent office in June 2022.

2. Published a patent titled " **IoT Based Smart E-Meter**" with application number 202141018332 in the Indian patent office in March 2021.

3. Published a patent titled " **Voice Based Alerting and Assisting Tool for Visually Challenged**" with application number 202141005842 in the Indian patent office in February 2021.

4. Published a patent titled " **Emotion Recognition Fitness Assistance for Fitness Blenders Using MEL Frequency Ceptral Coefficients'** with application number 202041056021 in the Indian patent office in December 2020.

Journal Publications:

Scopus Indexed Publications:

1. **IoT based model for flood warning system in waterfall**, **Gopinath, N**., Aruneraj, J., Ragul, V.B., 2022 1st International Conference on Computational Science and Technology, ICCST 2022 - Proceedings, 2022, pp. 697–700

2. **Automobilist Fatigue Detection Using Machine Learning Algorithms**, **Gopinath, N**., Santhosh, S., Prem Kumar, A.R., 2022 1st International Conference on Computational Science and Technology, ICCST 2022 - Proceedings, 2022, pp. 697–700

3. **Real Time Automation of Agriculture Environment for Indian Agricultural System using IoT**, **Gopinath, N**., Ezhilarasi, D., Kiruthika, S.B.,Kumar, D.S. Proceedings of the 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2022, 2022

4. **Empirical Analysis of Image Recognition and Classification through Machine Learning and Transfer Learning Approaches using Multiple Regression Analysis**, Avinash Seekoli; Ayan Das Gupta; Mohseena Thaseen; **N. Gopinath**; Sushma Jaiswal; Sunil L. Bang 2022 2nd

International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022, 2022, pp. 283–287

5. **Cosmetic Product Selection Using Machine Learning**, Rubasri, S., Hemavathi, S., Jayasakthi, K., ...Latha, K., **Gopinath, N**. 2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022

6. **Analysis of Optimization Based Routing Protocol for WBAN**, Diniesh V. C.; Murugesan G.; Joseph Auxilius Jude M.; **Gopinath N**.; Santhiyas A. S.; Sasirekha K. 2022 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2022, 2022, pp. 288–292

7. **Self-Activating Street Lights Using Sensors and Arduino**, **Gopinath, N**., Ezhilarasi, D., Kiruthika, S.B., Hemavathi, S. Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 469–472

8. **A strong reinforcement parallel implementation of k-means algorithm using message passing interface**, T Ragunthar, P Ashok, **N Gopinath**, M Subashini - Materials Today: Proceedings, 2021

9. **Prediction of Customer Purchase Intention Using Linear Support Vector Machine in Digital Marketing**, G Saranya, **N Gopinath**, G Geetha, K Meenakshi… - Journal of Physics: Conference Series, 2020

UGC / AICTE approved Journal Publications

1. **Extraction of cancer cells from MRI prostate image using MATLAB**, **N Gopinath** - International Journal of Engineering Science and Innovative Technology (IJESIT), 2012

2. **Graph based image segmentation method for identification of cancer in prostate MRI image**, **N Gopinath** - Journal of Computer Applications (JCA), 2011

3. **Tumor detection in the prostate organ using canny edge detection technique**, **N. Gopinath**, International Journal of Pure and Applied Mathematics, 2018

4. **IoT Based Passenger Comfort and Services in Railways**, A Ganga, JK Periasamy, **N Gopinath**, D Sathish kumar, International Journal of Recent Technology and Engineering (IJRTE), 2019

5. **Preserving Privacy Using Enhanced ShadowHoneypot Algorithm For Data Retrieval InCloud Computing** C.Saravana Bhavan, Ms.T.Gangalakshmi, P. Ashok, Dr.N.Krishnaveni ,**N.Gopinath** 2021 Journal of Design Engineering,ISSN: 0011-9342, Issue 6,pp. 6166- 6173.

6. **Overview of Localization Techniques in Wireless Sensor Networks**, **N. Gopinath**, Dr. A. Chinnasamy, Design Engineering (Toronto), 2021

7. **Parallel Implementation of K-Means Algorithms using MPI**, Nithish Surana Ragunthar.T , Ashok.P , **Gopinath.N**, JOURNAL of CRITICAL REVIEWS, 2020

8. **Revelation of Sewage and Effluents**, **N Gopinath**, J Sophia Rachel, Sneha Srikanth, Journal of the Gujarat Research Society, 2019

9. **Black Money Monitoring With Secure Cloud Data Storage Using Big Data Analysis And Blockchain Technology**, **N Gopinath**, KA Kumar, NP Sundaram, AVV Devan , Journal of Emerging Technologies and Innovative Research (JETIR) 2019

10. **Enhancement of MRI Prostate Image Using Histogram Equalization Techniques**, **N. Gopinath**, International Journal of Engineering and Advanced Technology (IJEAT), 2019

Workshops & FDP Attended:

1. Attended 5 days online ATAL Faculty Development Program on " **Electric Vehicles: Challenges and Opportunities in Future India**" organized by RMK College of Engineering and Technology from 20.09.2021 to 24.09.2021

2. Attended 5 days online ATAL Faculty Development Program on " **Internet of Things (IOT) with Machine Learning and Artificial Intelligence**" organized by ITS Engineering College from 13.09.2021 to 17.09.2021

3. Attended 5 days online ATAL Faculty Development Program on " **Sensor Technology in Lifestyle Enrichment**" organized by Easwari College of Engineering from 02.08.2021 to 06.08.2021

4. Attended 5 days International Faculty Development Program on " **Progresses in Computer Science and its Applications**" organized by VELS Institute of Science and Technology and Advanced Sciences from 09.07.2021 to 14.07.2021

5. Attended 5 days online Faculty Development Program on " **Innovation Incubation Start-ups & Research Challenges in Future India**" organized by Idhaya Engineering College for Women from 07.06.2021 to 11.06.2021

6. Attended 2 weeks National Level online Faculty Development Program on " **Machine Learning & Artificial Intelligence in Data Science**" organized by PACE Institute of Technology and Sciences from 24.05.2021 to 02.06.2021

7. Attended 5 days online Faculty Development Program on " **Open Source Tools for Data Analytics**" organized by Sri Sairam Engineering College from 24.05.2021 to 28.05.2021

8. Attended 6 days online Short Term Training Programme on " **Emerging Trends and Research Challenges in Next Generation Wireless Networks**" organized by Kongunadu College of Engineering and Technology from 29.03.2021 to 03.04.2021

9. Attended 5 days online Faculty Development Program on " **Emerging Research Trends in Computer Science & Applications**" organized by KC College of Arts and Science from

22.03.2021 to 26.03.2021

10. Attended 2 weeks AICTE Sponsored Faculty Development Program on " **Artificial Intelligence and Ambient Intelligence**" organized by Hindustan Institute of Technology and Science from 25.01.2021 to 06.02.2021

11. Attended 5 days ATAL online Faculty Development Program on " **Blockchain**" organized by Excel Engineering College from 18.01.2021 to 22.01.2021

12. Attended 5 days ATAL online Faculty Development Program on " **Augmented Reality(AR) & Virtual Reality(VR)**" organized by Dr. Mahalingam College of Engineering and Technology from 15.12.2020 to 19.12.2020

13. Attended 5 days Virtual Faculty Development Program on "**Simulation and Emulation of Self Organized Networks (SEASON -2020)**", organized by Department of ECE, Kongu Engineering College from 6.11.2020 to 10.11.2020

14. Attended 5 days ATAL online Faculty Development Program on " **Data Sciences**" organized by Hindustan College of Engineering and Technology from 2.11.2020 to 6.11.2020

15. Attended 5 days ATAL online Faculty Development Program on " **Artificial Intelligence**" organized by Sri Krishna College of Engineering and Technology from 31.8.2020 to 4.9.2020

16. Attended one week online Faculty Development Program on " **Emerging Trends in Engineering Research**", organized by Department of ECE, Sphoorthy Engineering College from 20.7.2020 to 25.7.2020

17. Attended 2 weeks online Faculty Development Program on " **Recent Trends in Information, Computing, Communication and Teaching Methodology Competency**", organized by Department of CSE, ECE & IT of Sri Sairam Engineering College from 4.5.2020 to 17.5.2020

18. Attended 5 days online Faculty Development Program on "**Artificial Intelligence and Machine Learning**", organized by Department of Computer Science and Engineering, CMR Technical Campus, Hyderabad from 18.5.2020 to 22.5.2020

19. Attended 7 days online Faculty Development Program on " **Python 3.4.3**" , organized by Department of Computer Science and Engineering, Adhiparasakthi Engineering College, Melmaruvathur in association with Spoken Tutorial Project, IIT Bombay from 16.4.2020 to 22.4.2020

20. Attended a one day Workshop on "**National Cyber Safety and Security Standards–summit '19**", organized by National Cyber Safety and Security Standards in association with Ministry of Electronics and Information Technology, IIT Madras on 22.06.2019

21. Attended AICTE Sponsored two weeks Faculty Development Program on " **Artificial Intelligence & Advanced Machine Learning using Data Science**" organized by Department of CSE & IT, S.A Engineering College from 22.11.2019 to 5.12.2019

22. Attended 8 weeks Faculty Development Program on "**Cloud Computing**" conducted by NPTEL AICTE and cleared the exam under Silver-Elite Category from August - October 2019.

23. Attended 2 Days Faculty Developments Program on "**Introduction to Mobile App Development**" conducted by ICT Academy from 6.12.18 to 7.12.18 at SA Engineering College, Chennai.

24. Attended a Faculty Development Program in Sri Sai Ram Institute of Technology on "**Internet of Things**"

25. Attended a Tech Workshop in Sri Sai Ram Engineering College on **Redhat(open source) Technology and industry Adaptation**

26. Attended a Faculty Development Program in Sri Sai Engineering College on "**Grid and Cloud Computing**"

27. Attended a Faculty Development Program in Sri Sai Ram Institute of Technology on "**Teaching Excellence in Engineering & Management Curriculum.**

28. Attended a Workshop in VIT University, Vellore on **Cyber Security and Issues.**

29. Attended a workshop in SKP Engineering College, Tiruvannamalai on **Research Methods in Education Technology** conducted by IIT Mumbai.

30. Attended a two day workshop on **Ontology** in SKP Engineering College, Tiruvannamalai.

Educational Websites Owned:

1. dwdmbygopi.weebly.com – For Data warehousing and Data Mining Concepts. (CSE)
2. isbygopi.weebly.com – For Information Security Concepts. (CSE)
3. ooadbygopi.weebly.com – For Object Oriented Analysis and Design Concepts. (CSE)
4. cnbygopi.weebly.com – For Computer Networks (CSE)
5. updateddwdmbygopi.weebly.com- For updated DWDM Concepts (CSE)
6. hsnbygopi.weebly.com- For High Speed Networks Concepts. (CSE/ECE)
7. eeecnbygopi.weebly.com- For Computer Networks Concepts. (EEE)
8. csecabygopi.weebly.com – For Computer Architecture concepts (CSE)
9. daabygopi.weebly.com – For Design and Analysis of Algorithms concepts (CSE)
10. dsbygopi.weebly.com – For Distributed Systems concepts (CSE)
11. psppbygopi.weebly.com – For Problem Solving and Python Programming concepts (CSE)
12. hcibygopi.weebly.com - For Human Computer Interaction concepts (CSE)