Sri Sai Ram Engineering College

Department of Information Technology

Name & Photo:	 **B. KAMALA**
Qualification:	M. Tech.(Ph.D)
Area of Specialization:	Web Technology, Cloud Computing, Artificial Intelligence, Deep Learning, Machine Learning
Year of Experience:	**Teaching** 21 Years **Industry**: Nil
No. of Workshops / Conference / FDP Attended:	110

Publications:	**Journal: 16**
	     International : 12
	     National: 4
	 Conferences: 37
	     National: 9
	     International: 28
	 Book Chapters : 6
	 Books Authored : 1
	 Patents Published : 3

Achievements:	1. **NPTEL Stars** - Discipline Star, Motivated Learner, Enthusiast - July-Dec 2025
	2. Received **Domain certification from NPTEL in Data Science Domain** in Jan-Apr 2025 session
	3. **Discipline Star in NPTEL** - Jan-April 2024
	4. Attended **Faculty Enrichment Program conducted by CTS** at October 2023
	5. Given Freshers Training for Azentio Software as **Industry Trainer** from 2/4/2023 - 6/4/2023
	6. Acted as a SPOC for Certificate course on data analytics for 100 Girls students from 30/01/2023 - 27/02/2023 - 140 hours training, a **CSR Initiative by PayPal and initiated by ICT Academy.**
	7. Received **NPTEL Mentor certificate** - July - Dec 2022 - Programming in Java
	8. **Elite certification and Top 5%** - Programming in Java (90% score) - NPTEL
	9. Obtained **TOP PERFORMING AND MOST POPULAR MENTOR** for the academic year 2020-2021 by ATL Innovation mission
	10. Obtained **Most Consistent and Active Mentor** by ATL Innovation mission for ATL Tinkerpreneur Summer Bootcamp 2021
	11. Received **GEM OF MENTOR INDIA award** from ATL Innovation Mission
	12. Obtained University First Rank and **Gold Medal in M.Tech (CSE)**
	13. College Topper in Language II (Tamil) & Class Topper in UG
	14. **Oracle Certified Trainer for Java Programming and Fundamentals**
	15. **Attended "Train the Trainer" program on "Full stack java" by Virtusa for the period of May 4th 2020 to June 5th 2020.**
	16. Certified ISO Auditor
	17. Had been the recipient of Best teacher award for producing 100% results.

			Period	
			18. Participated in **ILPXPlore Orientation program** from 22/01/18 to 25/01/18 at TCS ILP, TCS, Chennai.	

Professional Experience

Sl. No	College / Organization	Designation	Period	
			From	To
1	Sri Sai Ram Engineering College	Associate Professor	01/09/2023	Till Date
2	Sri Sai Ram Engineering College	Asst. Prof Grade-I	01/01/2013	31/08/2023
3	Sri Sai Ram Engineering College	Asst. Prof Grade-II	01/01/2010	31/12/2013
4	Sri Sai Ram Engineering College	Lecturer	23/06/2008	31/12/2009
5	Adhiparasakthi Engineering College	Lecturer	16/12/2004	16/06/2008

PAPERS PUBLISHED IN NATIONAL JOURNAL / INTERNATIONAL JOURNAL : 16

1.   Published a paper titled "Authentication Watermarking by Template ranking with symmetrical Central pixel" in SSEC Tech Journal Vol. 8.

2.   Published a paper titled "Platform Autonomous Custom Scalable Service using Service Oriented Cloud Computing Architecture", in International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622,Vol. 2, Issue 2,Mar-Apr 2012, pp.1467-1471

3.   Published a paper titled "Automatic Structuring of Semantic Web Services – An Approach", in International Journal of Computer & Communication Technology (IJCCT), ISSN (*ONLINE*):2231-0371 Volume 4, Issue 1, 2013.

4.   Published a paper titled "A Study on Integrated on Data Mining and Cloud Mining" in International Journal of Advances in Computer Science and Cloud Computing, ISSN: 2321-4058 Volume- 1, Issue- 2, Nov-2013, pp. 35-38.

5.   Published a paper titled "Query Processing and Optimization Using Set Predicates" in International Journal of Technology and Engineering System (IJTES) Vol 7. No.5 2015 Pp. 470-477 ISSN: 0976-1345

6.   Published a paper titled "Recommendation of Semantic Network of Web Pages" in Elysium journal of engineering Research & management, Volume 2, Issue 3, June 2015 P-ISSN: 2347

7.   Published a paper titled "Detection And Prevention of Malicious Feedback Rating in Web Service Recommendation Systems" in Elysium journal of engineering Research & management, Volume 2, Issue 3, June 2015 P-ISSN: 2347

8.   Published a paper titled "Prediction and Recommendation In Process Mining" in International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) Vol. 5, Special Issue 1, January 2018 (DOI: 10.20247/IJARTET.2018.05S01010018)

9.   Published a paper titled "A REVIEW ON PRACTICE MANAGEMENT SERVICES USING L-SOCCA" in ICTACT Journal on Data Science and Machine Learning, Vol. 1, Issue. 1, December 2019

10.   Published a paper titled "Car Safety via Engine Control Unit (ECU)" in Studies in Indian Places Names, Volume 40 Issue 3 (S1) February 2020.

11.   Published a paper titled "AIDYS – Learning aid for Dyslexics based on Multisensory approach" in Test Engineering and Management, Vol. 83,ISSN: 0193-4120 Page No. 13987-13992, March-April 2020

12.   Published a paper titled "Tasheel pedagogy of Topsy Turvy Lexicons" in Turkish Journal of Computer and Mathematics Education, Vol. 12, Issue 10, pp 6116 - 6122, April 2021.

13.   Published a paper titled "Cloud based AI approach for Predictive maintenance and failure prevention" in Journal of Physics: Conference Series, 2054 (2021) 012014, IOP Publishing, doi:10.1088/1742-6596/2054/1/012014

14.   Published a paper titled "Food Rescuer" in "International Journal of Scientific Research in Computer Science, Engineering and Information Technology", Vol. 8, Issue 3, pp 202 - 207.

15.   Kamala, B., Latha, B. AI-driven optimization of zinc removal using surface-modified biochar: a comparative study of ANN and DFNN. Chem. Pap. (2025). https://doi.org/10.1007/s11696-025-04186-2

16.   Kamala B, Latha B, "Deep Fuzzy NN modeling for the prediction of Zn(II) adsorption in columns using alkaline modified biochar: Integrated experimental and computational insights", Environmental Research, 289, (2026), https://doi.org/10.1016/j.envres.2025.123329

NATIONAL CONFERENCES: 9

1.   Presented a paper titled "Query Processing using FDBS" in Velammal College of Management and Computer studies, Chennai.

2.   Presented a paper titled "Security using Image Compression Techniques" in Saveetha Engineering College, Chennai.

3.   Presented a paper titled "Legal Service Oriented Architecture (LSOA) – A Case Study" at Adhiparasakthi Engineering College, Melmaruvathur on 10/04/13.

4.   Presented a paper titled "Process Assessment Mining using Process Mining algorithms" at Adhiparasakthi Engineering College, Melmaruvathur on 30/04/15.

5.   Presented a paper titled "Process Mining Algorithms – A Comparative Study" in Panimalar Institute of Technology, Chennai on 14/05/15.

6.   Presented a paper titled "A Review on Practice Management Services using L-SOCCA" in Alpha College of Engineering, Chennai on 12th February 2016

7.   Presented a paper titled " Huge Records Solitude in Biomedical Research" organized by Sri Sai Ram Engineering College, Chennai on 23rd March 2017

8.   Presented a paper titled "Purchase Domain Recommendation using Association Rule Mining" organized by Anna Institute of Science and Technology on 31st March 2017

9.   Presented a paper titled "Smartbin using IoT" organized by Sri Sairam Engineering College on 27th March 2018

INTERNATIONAL CONFERENCES: 28

1.   Presented a paper titled "Technology agnostic agile service using SOCCA – A Case study" at Info Institute of Engineering, Coimbatore on 2nd & 3rd March 2012 ICCIIT 2012 Proceedings, Umayam Publications. ISBN No. 81-903041-9-4.

2.   Presented a paper titled "Automatic Structuring of Semantic Web Services – An Approach" at Dr. NGP Arts and Science College, Coimbatore on 30/01/13 & 31/01/13

3.   Presented a paper titled "Auto Evolving and In-built Change Organizing Semantic Process Model for Web Services" in an IEEE International Conference conducted by EGS Pillay Engineering College, Nagapattinam on 29/03/13 and 30/03/13.

4.   Presented a paper titled "A Study on Integrated Data Mining and Cloud Mining" in the International Conference on Information Technology, Computer Science & Management (ICITCSM) organized by Institute of Research and Journals(IRAJ) on 1st December, 2013 at Hotel Sona's Inn, Chennai.

5.   Presented a paper titled "IDMCCA – Integrated Data Mining and Cloud Computing Architecture" in the IST sponsored International conference organized by Tagore Engineering college on 13th March 2014.Presented a paper titled "A Game Theoretic Analysis to Evade the Jamming in Timing Channel" in International Conference on Advances in Emerging Technology 2016 organized by Jaya Engineering College,Chennai on 07th May 2016.

6.   Presented a paper titled "Prediction and Recommendation In Process Mining" in International conference on cutting edge technologies in computing and communications organized by Sriram Engineering College, Chennai on 10th and 11th January 2018.

7.   Presented a paper titled "BAGH – A Comparative Study" in International conference on Computing and Communication Technologies (ICCCT'19) organized by Sri Sai Ram Engineering College, Chennai on 21st and 22nd February 2019.

8.   Presented a paper titled "Patronization for Orphans and Adoption using Android Application" in the International conference on Computing and Communication Technologies (ICCCT'19) organized by Sri Sai Ram Engineering College, Chennai on 21st and 22nd February 2019.

9.   Presented a paper titled "Car Safety via Engine Control Unit (ECU)" in the International Conference on Electrical Sciences organized by SNS College of Technology, Coimbatore on 20th and 21st February 2020.

10.   Presented a paper titled "AIDYS – Learning aid for Dyslexics based on Multisensory approach" in International conference on Computing, communication and control organized by Sri Sai Ram Engineering College, Chennai on 28th and 29th February 2020.

11.   Presented a paper titled "Cloud based AI approach for Predictive maintenance and failure prevention" in International Conference on Advances in Thermal Engineering and Applications organized by SRM Institute of Science and Technology, Chennai on 19th and 20th March 2021.

12.   Presented a paper titled "TASHEEL PEDAGOGY OF TOPSY-TURVY LEXICONS" in 2nd International e-Conference on Information, Communication and Networking organized by Easwari Engineering College, Chennai on 9th & 10th April 2021.

13.   Presented a paper titled "Plant Disease Detection" in 2nd International e-Conference on Information, Communication and Networking organized by Easwari Engineering College, Chennai on 9th & 10th April 2021.

14.   Presented a paper "ML BASED APPROACH TO DETECT AUTISM SPECTRUM DISORDER (ASD)" in IEEE 4th International conference on computing and communication technologies organized by Sri Sairam Engineering College, Chennai on 16th and 17th December 2021

15.   Presented a paper titled "Process Mining and Deep Neural Network Approach for the Prediction of Business Process Outcome" in the 2022 IEEE International Conference on Communication, Computing and Internet of Things held on 10 th and 11 th March 2022.

16.   Presented a paper titled "A Reliable Integrated Storage and Management Using Blockchain" in the IEEE International conference on Computational Science and Technology 2022 held on 9th and 10 th November 2022.

17.   Presented a paper titled "Digital identity system for real world asset using blockchain" in 2nd International Conference on Deep Sciences for Computing and Communications - 2023 (IconDeepCOM-2023) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology,Kattankulathur, Tamil Nadu, India during April 20th - 22nd, 2023

18.   Presented a paper titled "Flood Rescue using Multi-object Motion Tracking" in 2nd International Conference on Deep Sciences for Computing and Communications - 2023 (IconDeepCOM-2023) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology,Kattankulathur, Tamil Nadu, India during April 20th - 22nd, 2023

19.   Presented a paper titled "Blockchain Powered Real Estate Management" in 2nd International Conference on Deep Sciences for Computing and Communications - 2023 (IconDeepCOM-2023) organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology,Kattankulathur, Tamil Nadu, India during April 20th - 22nd, 2023

20.   Presented a paper titled "Replacing the Traditional Music Black Box:A Blockchain Based Approach For Securing Music Sharing Systems" in 2024 International Conference on Communication, Computing and Internet of Things, IC3IoT 2024

21. Presented a paper titled "Advanced Pan Sharpening Techniques for Satellite Image Fusion" in 2024 International Conference on Power, Energy, Control and Transmission systems, ICPECTS 2024.

22. Presented a paper titled "Phishing Attack Detector and Awareness Generator" in 2024 International Conference on Power, Energy, Control and Transmission systems, ICPECTS 2024.

23. Presented a paper titled "AR GuideX: Indoor Wayfinder" in 2024 International Conference on Power, Energy, Control and Transmission systems, ICPECTS 2024

24. Presented a paper titled "E-Smart Health Card System" in2024 International Conference on Power, Energy, Control and Transmission systems, ICPECTS 2024

25. Presented a paper titled "Crowdfunding Using Blockchain Technology" in International Conference on Computing and Communication Technoologies (ICCCT'25), 2025

26. Presented a paper titled "Event Horizon: Revolutionizing University Event Management with PWA" in International Conference on Computing and Communication Technoologies (ICCCT'25), 2025

27. Presented a paper titled "PROGRESSIVE FLOOD ANTICIPATION AND VEHICULAR SAFETY SYSTEM " in International Conference on   Computing   and   Communication Technologies (ICCCT'25), 2025

28. Presented a paper titled "Cognicare: An Intelligent Multi-Module Framework for Support of Neurodevelopmental and Learning Disorders using Machine Learning", in 5th International Conference on Soft Computing for Security Applications ICSCSA 2025

PATENTS PUBLISHED: 3
1. 360 Degree CRADLE SITTER A TODDLER MONITORING SYSTEM FOR SMART CRADLE USING IOT AND AI - Application Number - 202141006077

2. POLYP DETECTION IN GASTROINTESTINAL TRACK USING MACHINE LEARNING - Application Number - 202341008583

3. Method for Eco-Consciuous Extraction of Pigments from waste streams - Application Number - 202441076451

BOOK CHAPTERS : 6

1. Published a Book chapter titled "Measuring Effectiveness of Self-paced Learning in Process - A Case Study" for the Book "Recent Trends in Engineering and Technology". Chapter 10, ISBN 9788194714989, pp 68-74.

2. Published a Book chapter titled "Flood Rescue Using Multi-object Motion Tracking" in Deep Sciences for Computing and Communications. IconDeepCom 2023. Communications in Computer and Information Science, vol 2177. Springer, Cham. https://doi.org/10.1007/978-3-031-68908-6_38

3. Published a book chapter titled "Digital Identity System for Real World Asset Using Blockchain" in Deep Sciences for Computing and Communications. IconDeepCom 2023. Communications in Computer and Information Science, vol 2176. Springer, Cham. https://doi.org/10.1007/978-3-031-68905-5_3

4. Published a book chapter titled "Blockchain Powered Real-Estate Management System" in Deep Sciences for Computing and Communications. IconDeepCom 2023. Communications in Computer and Information Science, vol 2176. Springer, Cham. https://doi.org/10.1007/978-3-031-68905-5_5

5. Published a book chapter titled "MACHINE LEARNING BASED IPL WINNER PREDICTION ANALYSIS" in IIP Series, Volume 3, Book 5, Part 2, Chapter 2, 2023

6. Published a book chapter titled "MENTAL DEPRESSION DISORDER PREDICTION USING MACHINE LEARNING APPROACH" in IIP Series, Volume 3, Book 5, Part 2, Chapter 1, 2023

BOOKS AUTHORED: 1

1. Authored a Book titled "Object Oriented Programming" published by Charulatha publications in August 2023 with ISBN No: 978-93-5577-586-3.

EVENTS ORGANIZED

1. Acted as a Coordinator for International Conference on Information, Communication and Technology – ICICT'09, National Conference on Web Technology – NCWT'13 and National Level Technical Symposium – Infogeddon 2K15

2. Acted as **Chief Faculty Coordinator** for Organizing Internet of Things workshop in association with Innovation - Cell UMIC, IIT Bombay from 08/01/18 to 09/01/18.

3. Coordinator for a workshop on "Ethical hacking" conducted by Cyber Club on 26th and

27th February 2020

4. Acted as an Event coordinator for the National Level Technical Fest Xtrofest 2.0 on 28th and 29th September 2020.

5. Acted as the event coordinator for "The Hackers Boot Camp" conducted by Cyber Club from 11th March 2021 to 13th March 2021.

6. Acted as the event organizer for AICTE sponsored ATAL FDP on "Augmented Reality/ Virtual Reality and its Applications" from 4th to 8th October, 2021

7. Instructor in Cisco networking academy on October 2021

8. Event coordinator for Workshop on Safe and proper use of Social Media - Cyber Security Practices on 4th May 2022 in association with NSS unit of Sri Sairam Engineering College to observe Cyber Jaagrookta(Awareness) Diwas.

9. Organized an awareness programme for Smart India Hackathon 2022 on 23.02.2022

10. Conducted and acted as a SPOC for Certificate course on data analytics for 100 Girls students from 30/01/2023 - 27/02/2023 - 140 hours training, a CSR Initiative by PayPal and initiated by ICT Academy.

PROFESSIONAL MEMBERSHIP

1. ISTE - LM127125
2. IAENG - 233218
3. IFERP - PMIN72965134
4. IEEE - 98102282

PROJECTS GUIDED

1. Guided IBM TGMC Project – Certification for Blind (December 2012)
2. Creating games for promoting awareness of dengue and chikungunya - SIH 2017
3. Tasheel Pedagogy of Topsy Turvy Lexicons - 2nd Round of 10th CSI-InApp International Student Project Awards 2021
4. Plant Disease Detection - DST-TEC, Center for Technology Development and Transfer, Anna University, 2021

FACULTY INTERACTION WITH OUTSIDE WORLD

1.   Delivered a lecture on "Functions in python" at ECE Dept, Sri Sairam Engineering College

2.   Handled a seminar on "Python – Machine Learning" for 70 UG and PG students at M.R. Government arts College, Mannargudi on 20th February 2020.

3.   Acted as a resource person for a Faculty Development program on Python programming for beginners" for Polytechnic faculty members on 11th March 2020.

4.   Attended "Train the Trainer" program on "Full stack java" by Virtusa for the period of May 4th 2020 to June 5th 2020.

5.   ATAL Mentor of Change for Lalaji Memorial Omega International School, Kovur, Chennai and delivered webinars on Basic Programming Skills on 11/07/2020 and 28/08/2020.

6.   Evaluator for TOYCATHON 2021, organized by Government of India

7.   Acted as Mentor of Change for ATL Tinkerpreneur Bootcamp 2021 and guided 14 students and one team across India and guided them to complete their project.

8.   Received Gem of Mentor India Award for being one of the Top Mentors of Change to the students of Atal Tinkering Lab during the period 2020-2021.

9.   Received appreciation from CISCO academy as Active Instructor in Cisco networking academy in October 2021.

10.   Reviewer for the IEEE 4th International conference on computing and communication technologies organized by Sri Sairam Engineering College, Chennai on 16th and 17th December 2021

11.   Acted as a session chair for 2022 IEEE International Conference on Communication, Computing and Internet of Things held on 10 th and 11 th March 2022.

12.   Delivered a special talk on "Recent Trends in Cloud Computing" on 11th May 2022 at M.R. Government Arts College, Mannargudi.

13.   Reviewer for IEEE MYSURUCON 2022-The 2nd Edition of the Mysore Subsection Flagship International Conference on 16th & 17th October 2022.

14.   Judge for the Paper Presentation Event Conducted by the Department of Artificial Intelligence and Data Science on 7th November 2022.

15.   Attended the NASSCOM - NASTECH Event on 8th December 2022 at Westin Hotel, Velacherry, Chennai.

16.   Judge for Inter School Computer Science Project Expo - "Tech Srujanotsav" at Chinmaya Vidyalaya on 7th January 2023

17. Given Freshers Training for Azentio Software as **Industry Trainer** from 2/4/2023 - 6/4/2023

18. Went to PayPal India on 16/03/2023 for Women's day celebration as a part of CSR Initiative - Certificate course on Data Analytics.

19. Reviewer for IEEE International conference on Integrated Circuits and Communication Systems organized by S.L.N. College of Engineering, Raichur on 24th and 25th February 2023.

20. Reviewer in the 7th International Conference on Computational Intelligence in Data Science (ICCIDS-2024) organized by the Department of Computer Science and Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, India held during February 21-23, 2024.

21. Invited as IETE-Invitation-Jury-Website Design Contest on 28/09/2023

22. Reviewer for the AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.

23. Reviewer in the 10th International Conference on Communication and Signal Processing - ICCSP 2024 held on 12th & 13th April 2024 at Adhiparasakthi Engineering College.

24. Active Mentor for ATL Tinkerpreneur 2023

25. Reviewer for IEEE International conference on Electrical circuits and Electronics, Ballari Institute of Technology and Management, Ballari on 29th & 30th April 2023

26. Reviewer for first IEEE International Conference on Integrated Intelligence and Communication systems organized by Sharnbasva University, Kalaburagi, 24-25 November 2023

27. Given Freshers Training for Azentio Software as **Industry Trainer** from 22/02/24, to 26/02/24.

28. Reviewer for 2nd International Conference on Integrated circuits and communication systems organized by Department of ECE, HKE Society's Sir M Visvesvaraya college of engineering, Raichur during 23rd and 25th February 2024

29. Reviewer for International Conference on Software, Systems and Infortion Technology organized by Department of Computer Science and Engineering and Department of Information Science Engineering, Sri Siddhartha Institute of Technology, Tumukuru on 18th and 19th october 2024.

30. Reviewer for International Conference on Integrated Intelligence and communication systems (ICIICS-2024) organized by Sharnbasva University, Kalaburagi, 22-23 November 2024

31. Reviewer for IEEE International Conference on Mobile Networks on Wireless

Communications (ICMNWC-2024) organized by Tumukuru in association with IEEE Bangalore section during 04-05 December 2024

32.   Reviewer for International Conference on Networks, Multimedia and Information Technology INMITCON) organized at NITTE Meenakshi Institute of Technology, Bangalore, on 01-02 August 2025

33.   Reviewer for IEEE International Conference on Communication, Computer and INformation Technology (IC3IT-2025) organized at Mysuru Royal Institute of Technology, Mandya on 24-25 October 2025

34.   Reviewer for International Conference on Software, Systems and Infor tion   Technology organized by Sri Siddhartha Institute of Technology, Tumukuru on 17-18 October 2025.