SRI SAI RAM ENGINEERING COLLEGE,CHENNAI-44

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Name & Photo :	J.JEGAN AMARNATH
Designation:	Associate Professor
Qualification :	B.E., M.E.,(Ph.D)
Area of Specialization :	Data Mining and Data Warehousing,Medical Image processing,Machine Learning.
Experience :	Teaching : UG: 24 YEARS PG : 3years
No. of workshop / Conferences / FDP attended:	9 / 25 / 24
Publications :	Journals National :10 International :10 Conferences National : 12 International : 14 Patent: 7 Book : 3
Research Guidance :	NIL

General :	- Acted as ISO Coordinator - Acted as Coordinator and Session Chair In-charge for International Conference ICCST'17 - Acted as Symposium Coordinator. - Acted as Time Table Coordinator for CSE department - Acted as Project & Mini-project Coordinator - Class Committee Coordinator - Life Member, Indian Society for Technical Education , IACSIT - Life Member, International Association of Engineers member, IAENG - Lab In charge - Extra-curricular and co-curricular coordinator - Acted as Organizing Secretary for National Conference on Smart Innovation of Communication & Computing NCSICC'18 - Member, Institute of Electrical and Electronics Engineers, IEEE
Staff Achievements:	**Cisco certified trainer**. - Produced centum results in many subjects. - Published paper in reputed International Journals. - Presented papers in various National and International Conferences.

PROFESSIONAL EXPERIENCE:

Sl. No	College / Organization	Designation	Period	
			From	**To**
1	AMS POLYTECHNIC COLLEGE	LECTURER	17.11.1998	30.05.2000
2	AMS COLLEGE OF COLLEGE	LECTURER	14.06.2000	18.06.2002
3	SRI SAI RAM ENGINEERING COLLEGE	ASSOCIATE PROFESSOR	30.08.2004	TILL DATE

PATENT

❖ Filed Indian patent on 12.10.20 the innovation titled "**Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers**". (Application No 202041044323).

❖ Filed Indian patent on 12.10.20 the innovation titled **"A Machine Learning Based Automated Toilet Cleansing System with Automated Doors"**. (Application No 202041044307).

❖ Filed Indian patent on 12.10.20 the innovation titled **"An Automatic Hospital Stretcher That Monitors Vital Data's of The Patients".** (Application No 202041044322).

❖ Granted Australian patent on 10.10.2020 (Application No 2020102663) titled **"Cooperative Sensing, Communication and Control of IoT Network using Machine Learning Algorithms"**

❖ Filed Indian patent on 19.10.23 the innovation titled **ENHANCED AUTISM DETECTION USING DEEP LEARNING TECHNIQUE** Application No **202341071359**

BOOK PUBLICATIONS

❖ Published a book chapter titled **"Technical Analysis on Spammer detection using Machine Learning and data mining techniques"** in Book titled **"Machine Learning and Applications**". ISBN: 978-93-86923-47-9, Publisher: Dipti Press Pvt Ltd. Chennai. Sep 2020.

❖ Published a book titled **"Advanced Machine Learning "** Notion press ISBN:78-1648998560, 1648998569 2 Jun 2020

JOURNALS & CONFERENCE PUBLICATIONS::

- Presented a paper titled **Advanced MAC scheme for voice/Data traffic on wireless network** at a national conference on **Recent approaches in communication and information technology in** Madha engineering college

- Presented a paper titled **An Overview of Handoff in Fourth generation mobile networks at a international conference on Innovative Computing, Information and communication technology** at sri sai ram engineering college on 16th to 18th Dec 2009

- Presented a paper titled **Optimizing prediction theory algorithm for universities data using MLA algorithm** in National Conference on Magus Info Electro Tech-14,29th March 2014

- Presented a paper in International Journal of Advanced and Innovative Research IJAIR- Volume 3 Issue 4 (April 2014) titled **Robust Face Recognition Technique Based on Granular Computation and Hybrid WLD Spatial Feature Extraction**

- Presented a paper in **Efficient Refining of Why-not Questions on Top-KQueries National Conference on Emerging Trends and Intelligence Technologies (EIT'2015)** at Anand Institute of Higher Technology on 14th March 2015

- Presented a paper on **Encapsulation of Efficient and Deep Access Web Crawler** ', Proceedings of International conference on engineering technology and science, Muthayammal engineering college, 18th & 19th march **2016,** pp.1449**.**

- Presented a paper in **Efficient Semantic Personalized Search Using RDF in Web Services**", International conference on Computational Science and Technology, organized by dept of CSE, Sri SaiRam Engineering College, 9th and 10th March **2017.**

- Presented a paper in" **Plant Identification using Leaves with Particle Swarm Optimization and Firefly Algorithm**" International Conference on Computational Science and Technology Organised by CSE dept, Sri Sai Ram Engineering College,9th and 10th**March 2017.**

- Published paper on" **ALERT CLUSTERING METHOD FOR INTRUSION DETECTION**", International Journal of Pure and Applied Mathematics Volume 118 No. 19 ,2018, 2703-2711ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version),url: http://www.ijpam.eu. **(SCOPUS INDEXED).**

- Published paper on "**On-Time Order Effortless Replenishment Ordering of Merchandise Using Internet Of Things**", International Journal of Pure and Applied Mathematics Volume 118 No. 19 ,2018, 2713-2725.ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version),url: http://www.ijpam.eu. **(SCOPUS INDEXED).**
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- Presented a paper in "**coarse grain load balance algorithm for Detecting dna in a database**", National Conference on Smart Innovations in Communications and Computing (NCSICC'18) – Orgazised by Dept of CSE,Sri SaiRam Engineering College chennai on 27th March 2018.

- Presented a paper in "**chronic Conjecture and Uncertainty Detection by Machine Learning**",

National Conference on Smart Innovations in Communications and Computing (NCSICC'18) – Orgazised by Dept of CSE,Sri SaiRam Engineering College chennai on 27th March 2018

- Published paper in "**IDENTIFYING TWITTER BOTS BASED ON TRENDING HASHTAGS USING MACHINE LEARNING ALGORITHMS**" Journal of Emerging Technologies and Innovative Research © 2019 JETIR June 2019, Volume 6, Issue 6

- Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled **"Augmented Reality in Military Applications".**

- Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled "**Military Database Security via Justapose Database Shuffling".**

- Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled "**I-Voting on Cloud Framework**".

- Published a paper in International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-1S, October 2019, titled "**Blockchain in India**".

- Published a paper in Journal of Green Engineering (JGE) '**Safe and Optimized Cardiac Image Processing Techniques for Quantifying Right Ventricle Dimensions with Nuclear Morphological Analysis**" Volume 10 oct 2020.

- Published a paper in Journal of Physics: Conference Series "**Confidentiality Guaranteed E-Health Treatment for Cloud Cover Enhanced Systems Based on IoT**"2021/7/1

Published a paper in Cardiometry "**An Enhanced Prediction Model For Autism Spectrum Disorder**" 2022/12/1 ISSN 2304-7232

Published a paper in International Conference on Computational Science and Technology (ICCST) "**Hybrid Model of K-Means Clustering and SVM to Detect Ailments in Vegetables**" 2022/11/9

Published a paper in International Journal of Early Childhood Special Education "**Data Security In Databases In Medical Clinic**"2022/1

Published a paper IETE Journal of Research" **An Efficient Liver Disease Prediction Using Mask-Regional Convolutional Neural Network and Pelican Optimization Algorithm**" 2023/2/18

Published a paper in **AIP Conference Proceedings**"Behaviour-constrained support vector machines for FMRI data analysis"2023/1/30

Published a paper in International Journal for Research in Applied Science & Engineering Technology "**Sewage Monitoring and Maintenance Alert using IoT**".2023/5

Published a paper in International Conference on Smart Technologies for Smart Nation (SmartTechCon 2023) **"Optimizing Water Distribution Pump Scheduling with SVM-Based Machine Learning Using IoT Sensor Data"2023**

Published a paper in Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 titled " **Route-Based User Segmentation and Clustering: A Machine Learning Approach for Enhanced Transportation Service".**

Published a paper in **2023 2nd International Conference on Smart Technologies for Smart Nation Smarttechcon 2023** titled **Smart Waste Collecting Robot Integration With IoT and Machine Learning**

Published a paper in Aip Conference Proceedings titled **Behaviour-Constrained Support Vector Machines for FMRI Data Analysis**

Published a paper in 4th International Conference on Sustainable Expert Systems Icses 2024 Proceedings titled **Naive Bayes-based Autonomous Illumination System for Urban Green Spaces with Cloud Assistance**

Published a paper in 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India 2024 titled **Enhanced Autism Detection Using Deep Learning Technique**

Published a paper in IETE Journal of Research titled **An Efficient Liver Disease Prediction Using Mask-Regional Convolutional Neural Network and Pelican Optimization Algorithm**

Published a paper in 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India 2024 titled **MR-PC-A Multi-Reality Personal Computer with Minimal I/O Hardware**

Published a paper in Expert Systems with Applications 2024 titled **Detecting diabetic retinopathy using a hybrid ensemble XL machine model with dual weighted-Kernel ELM and improved mayfly optimization**

Published a paper in **Computer Methods in Biomechanics and Biomedical Engineering** 2025 titled **Enhanced cardiovascular disease prediction: AMWOA-based feature selection and PyramidConvFormer-VAE fusion approach**

Published a paper in **SN Computer Science 2025 titled An Enhanced Detection System of Autism Spectrum Disorder Using Thermal Imaging and Deep Learning**

Published a paper in 2025 International Conference on Computing and Communication Technologies (ICCCT)titled An Automated Detection System of Autism Spectrum Disorder Using Optimal Feature Selection-Based Adaptive RNN with Attention Mechanism

Published a paper in 2025 IEEE Pune Section International Conference (PuneCon) titled **OvaAI: HyperFused Multi-Modal Deep Learning and Graph-Augmented Diagnostics for Early Ovarian Cancer Detection**

Published a paper in Physical and Engineering Sciences in Medicine 2026 titled **An automated detection system of autism spectrum disorder using meta-heuristic approach of adaptive LSTM with bayesian learning technique**

STAFF DEVELOPMENT PROGRAMS AND WORKSHOPS:

 Attended **Faculty Development Programme** on **Visual Programming** conducted by **Centre for Faculty Development, Anna University** at **Arulmigu Kalisalingam Engineering College** from 7th November 2004 to 12th November 2004.

 Attended **"Two-day workshop on Network security"** conducted by **M.N.M.Jain Engineering College,** Chennai, from 24th and 25th September 2004

 Attended **"Two-day workshop on Software Testing & Quality Management"conducted byR.M.K. Engineering College, Chennai. on 23rd December 2004**

 Attended a national level conference on **Distributed system and knowledge Engineering** from 16th and 17th sep 2005 at sri sai ram engineering college

 Attended a training programme on **IBM Rational Suite** at sri sai ram engineering college from 3rd and 4th sep 2005

 Attended Five days online ATAL FDP On "**Data Sciences**", From 16.11.2020 to 20.11.2020 organized by, Indian Institute of Information Technology, Design &

Manufacturing Kancheepuram.

- Attended AICTE sponsored Six days online STTP On "**Incorporating the techniques of Block Chain & Artificial Intelligence to face the security and privacy challenges of IT infrastructure – Industry Approach & Implementation Data Sciences**", From 23.11.2020 to 28.11.2020 organized by, KCG College of Technology, Chennai.

- Attended Five days online ATAL FDP On **"Cyber Security"**, From 30.11.2020 to 04.11.2020 organized by, Sri Venkateswara College of Engineering,Chennai.

- Attended Five days online ATAL FDP On **"Machine Learning"**, From 07.12.2020 to 11.12.2020 organized by, R.M.K COLLEGE OF ENGINEERING AND TECHNOLOGY,Chennai.

- Attended **"National Level Seminar on Research Methodology"** conducted by **Sri Sai Ram Institute of Management Studies**, Chennai on 9$_{th}$ February 2005.

- Attended **"Two-day workshop on .Net & C#"** conducted by **Sri Sai Ram Engineering College** in association with **Computer Society of India, Chennai Chapter** on 17$_{th}$ and 18$_{th}$ December 2004.

- Attended a staff development programme on **web services and application** from 5$_{th}$ to 17$_{th}$ may 2008 at sri sai ram engineering college

- Attended a staff development programme on **mobile networks** from 19$_{th}$ to 30$_{th}$ Jan 2009 at sri sai ram engineering college

- Attended a National conference on **Information and communication technology** from 9$_{th}$ and 10$_{th}$ march 2007

- Attended a staff development programme on **Information technology in telemedicine and E-Health** from 9$_{th}$ to 21$_{st}$ July 2007 at sri sai ram engineering college

- **Attended a seminar in Entrepreneurial awareness and development programme**in sri sai ram engineering college 15$_{th}$ and 16$_{th}$ Feb. 2007

- Presented a paper titled **Advanced MAC scheme for voice/Data traffic on wireless network** at a national conference on **Recent approaches in communication and information technology in** Madha engineering college

- Presented a paper titled **An Overview of Handoff in Fourth generation mobile networks** at an international conference on **Innovative Computing, Information and communication technology** at sri sai ram engineering college on 16$_{th}$ to 18$_{th}$ Dec 2009

- Attended "**Two-day workshop on Grid computing"** in sathyabama university**,** Chennai on 19_{th} and $20th_{rd}$ march 2010.

- Attended AICTE sponsored seminar on **cloud computing and mining** conducted by MCA department is sir sai ram Engg Collegeon 26/09/2013 to 27/09/2013

- Attended FDP on **Big Data and Internet Of Things** in sai ram engineering college on 10-2-2014 to 14-02-2014

- Attended FDP on **Cloud computing and Big Data** in sri sai ram engg college on 8/12/14 and 09/12/14

- Attended a Workshop on **Mobile Application Development** in sri sai ram engg college from 17/02/2018 to 20/02/2018

- Training program for instructors on **CCNA (1& 2)-(Routing & Switching)** at cisco training center,amritanager,Coimbatore. From 25/07/2016 to 6/08/2016