Sri Ramakrishna Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC with "A" Grade & All UG Programmes are Accredited by NBA)
Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010
www.srit.org :: Phone – 0422-2605577

Faculty Profile

Full name with qualification and designation: Dr.S.Gayathri Devi & B.Sc., MCA., M.Phil., M.E., Ph.D., & Associate Professor

Date of birth	:	04/06/1975	Gender	:	FEMALE
Nationality	:	INDIAN	Marital status	:	Married
Address for correspondence	:	3/12B-2, Iswaryam Avenue, Theethipalayam (PO), Perur (Via), Coimbatore - 641010	Permanent address	:	3/12B-2, Iswaryam Avenue, Theethipalayam (PO), Perur (Via), Coimbatore - 641010
Mobile no	:	9865856367	e-mail (official)	:	gayathridevi.cse@srit.org
Landline	:	___	e-mail (personal)	:	grgdmn2007@gmail.com
Date of joining this institution	:	10-02-2023	Post of joining	:	Associate Professor
No of promotions since present D.O.J	:	NA	Present post	:	Associate Professor
Present pay scale	:		Gross pay	:	55,230/-
Employer ID	:	TE438	Bank account No. (Salary credited)	:	00000020304213937
P.F. No	:		Group Insurance No	:	
PAN Number	:	AKFPG4622D	Aadhar Number	:	605954279191
AICTE ID	:		AICTE Institution ID	:	

Objective (s):

As a versatile educator, I have had the opportunity to work with a wide variety of students from the rural areas including those who come from illiterate background and with behavioral challenges. From this experience, I have been able to remain sensitive to student's unique capabilities, provide individualized support, and collaborate with the head of the department to cultivate a supportive learning environment, where each student is able to learn and succeed.

Providing assistance to students (tutor & mentor) by employing effective learning techniques (pedagogy and blooms taxonomy), allows me to assess their needs, goals and struggles. Furthermore, helping to promote engaging educational games / experiential learning (in form of quiz competition, chart your technology contest and project presentation / field based experiential learning) and also supervising effective hands-on activities (in the form of student's quality circle, team – based learning, seminar on emerging trends, online MOOC courses and learning management system) that encourage participation and socialization with peers are just a few of my talents as Lecturer | Assistant Professor | **Associate Professor** to implement classroom - based experiential learning.

My research interests lie at the intersection of computer science (particularly data analysis involving machine learning and big data concepts) and statistics. My research contributions have been to design efficient and fair mechanisms for resource allocation, and to leverage machine learning and optimization methods in the context of big data applications.

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
Ph.D.,	Computer Science and Engineering	2020	Coimbatore Institute of Engineering and Technology	Anna University	I
M.E.,	Computer Science and Engineering	2010	Coimbatore Institute of Engineering and Technology	Anna University	8.97 CGPA
M.Phil.,	Computer Science	2005	----	Bharathidasan University	68%
M.C.A.,	Computer Applications	1999	Sri Ramakrishna College of Arts and Science for Women	Bharathiar University	66%
B.Sc.,	Mathematics	1996	PSG College of Arts and Science	Bharathiar University	67%

Title of Ph.D. Thesis:

CERTAIN INVESTIGATIONS ON BIG DATA CLASSIFICATION ALGORITHMS UTILIZING   EXTREME LEARNING MACHINE AND ONLINE FEATURE SELECTION TECHNIQUES

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology	Associate Professor	10/02/23	Till date	0	9	14
SASTRA University, Thanjavur	Assistant Professor – III	02/07/18	12/12/22	4	6	0
Freelancer	Corporate Trainer	03/08/17	30/06/18	0	11	0
Coimbatore Institute of Engineering and Technology	Assistant Professor – III	01/12/10	30/07/17	6	8	0
SASTRA University	Assistant Professor – II	01/06/10	30/11/10	0	6	0
Sri Ramakrishna Institute of Technology	Lecturer	01/08/06	30/08/07	1	1	0
Kovai Kalaimagal College of Arts and Science	Lecturer	03/08/01	30/08/07	6	1	0
			Total	20	5	14

Industrial Experience

Name of the Organization	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
E-LEARN Computer Tech, Coimbatore	Centre Head | Quality Consultant	Training Division	09/2007	06/2010	2	10	-
Software Solutions Integrated Limited, Coimbatore	Software Engineer | Corporate Trainer	Training Division	08/1999	07/2001	2	-	-
				Total	4	10	-

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T /	Pass Percentage

				L)	
2022-2023	Fifth	20CS012	Principles of Compiler Design	Theory	-
2022-2023	Fifth	20CS014	Principles of Compiler Design	Lab	-
2023-2024	Third	20IT002	JAVA Programming	Theory	-
2023-2024	Third	20IT004	JAVA Programming	Lab	-

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2023-2024	Eighth	Stock Market Prediction using Machine Learning and Deep Learning Techniques	UG
2023-2024	Eighth	Automatic Facial Recognition System using Deep Learning Techniques	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	SCIE – 4 Scopus - 2	0
Conferences	4	0

Journal Publications (IEEE format) *(citations – 54 || h-index – 5 || i10 index - 3) as on 20/12/22*

PUBLICATIONS

- *Devi S, Gayathri, Subramaniyaswamy Vairavasundaram, Yuvaraja Teekaraman, Ramya Kuppusamy, and Arun Radhakrishnan. "A Deep Learning Approach for Recognizing the Cursive Tamil Characters in Palm Leaf Manuscripts."* **Computational Intelligence and Neuroscience** *2022 (2022),* **SCIE indexed** - https://doi.org/10.1155/2022/3432330

- *Gayathri Devi.S. and Sabrigiriraj.M. "An Enhancement of Big Data Classification using Minimum Consistent Subset and Virtual Machine Mapping",* **Journal of Control Engineering and Applied Informatics** *with Impact Factor as 0.698,* **SCIE indexed** – EID: 2-s2.0-85063101974

- *Gayathri Devi.S. and Sabrigiriraj.M. "HMOFSA: A Hybrid Multi-Objective Firefly and Simulated Annealing based Algorithm for Big Data Classification",* **Concurrency and Computation: Practice & Experience,**

https://doi.org/10.1002/cpe.4985 *with Impact Factor as 1.114,* <mark>**SCIE indexed** -</mark> http://www.scopus.com/inward/record.url?eid=2-s2.0-85057573165&partnerID=MN8TOARS

- *Gayathri Devi.S. and Sabrigiriraj.M. **"Swarm Intelligent based Online Feature Selection (OFS) and Weighted Entropy Frequent Pattern Mining (WEFPM) algorithm for Big Data Analysis", Cluster Computing - The Journal of Networks, Software Tools and Applications (Springer),*** https://doi.org/10.1007/s10586-017-1489-9 *with Impact Factor as 2.040,* <mark>**SCIE indexed.**</mark>

- *Gayathri Devi.S. and Sabrigiriraj.M**. "An Efficient Method for Big Data Classification", Asian Journal of Information Technology, 15 (24):5051-5059, 2016, ISSN: 1682-3915,*** <mark>**Annexure-I**</mark>*, **Anna University.***

- *Gayathri Devi.S. "Breast Cancer Prediction System using Feature Selection and Data Mining Methods", International Journal of Advanced Research in Computer Science (2011): 81-87,* <mark>***Annexure-II***</mark>*, **Anna University.***

Conference Publications (IEEE format)

- *Gayathri Devi. S**, "Doctor On-Board", International Conference on Computer Science, Mechatronics and Information Technology, 2022.***

- *Gayathri Devi.S. and Sabrigiriraj.M.* **"A Review and Analysis of Feature Selection and Online Feature Selection Algorithms for Big Data Classification"** *– **ICCTCT 2018 - IEEE Conference, March 2, 2018 -*** DOI: 10.1109/ICCTCT.2018.8550928

- *Gayathri Devi.S. and Manjula K.R. "A Collaborative Filtering Based Ranking Algorithm for Classifying and Ranking News Topics By Using Factors of Social Media", **International Conference on Computational and Bio Engineering, published in Springer Series** – "Learning and Analytics in Intelligent Systems",* <mark>**Scopus indexed**</mark> – https://doi.org/10.1007/978-3-030-46939-9_26

- *Gayathri Devi.S. and Manjula K.R. " Solar Irradiation Prediction Using Weather Forecast Data", **International Conference on Computational and Bio Engineering, published in Springer Series,*** <mark>**Scopus indexed**</mark> *– Student paper -* https://doi.org/10.1007/978-981-16-1941-0_67

Books / <mark>Book Chapters</mark> (IEEE format)

- *Gayathri Devi. S. and Manjula K.R. "A Collaborative Filtering Based Ranking Algorithm for Classifying and Ranking News Topics By Using Factors of Social Media", **International Conference on Computational and Bio Engineering, published in Springer Series** – "Learning and Analytics in Intelligent Systems",* <mark>**Scopus indexed.**</mark> *– BOOK Chapter – 1 -* https://doi.org/10.1007/978-3-030-46939-9_26

- *Gayathri Devi. S. and Manjula K.R. " Solar Irradiation Prediction Using Weather Forecast Data", **International Conference on Computational and Bio Engineering, published in Springer Series,*** <mark>*Scopus indexed*</mark> *- BOOK Chapter – 2 – Student paper -* https://doi.org/10.1007/978-981-16-1941-0_67

- *"Cloud Computing"* by Dr.Gaurav Vishnu Londhe, Dr.G.Gandhimathi, Dr.Dindayal Mahto, **Dr.S.Gayathri Devi**, Mr.N.Siva Kumar, ISBN: 978-81-956780-8-2, DOI: doi.org/10.5281/zenodo.7573538

- *"Artificial Intelligence and Statistics"* by **Dr.S.Gayathri Devi**, Dr.K.R.Manjula, Dr.P.Bhargavi, Dr.G.V.Ramesh Babu, Dr.S.Jyothi, ISBN: 978-81-19359-01-1, DOI: doi.org/10.5281/zenodo.7991767

PATENTS (7) AS ON 25/06/2023

- Patent 1 – Flight Ticket Price Analysis and Prediction using Machine Learning (02/2021) – 202141005780 **(IDEA patent)**
- Patent 2 – An Artificial Intelligence based method for smart energy optimization for massive internet of things (02/2021) - 202141008044 **(IDEA patent)**
- Patent 3 – An AI Integrated Smart Shoes for Healthcare – (04/2021) - 20214101750 **(IDEA patent)**
- Patent 4 – A Service-oriented (Consumers to Consumers) exchange of works through online platform (18/01/22) – 202241002802 **(IDEA patent)**
- Patent 5 – 358631-001 – Smart Shoes – A Safety Device for Women **(Design patent with Grant) – granted.**
- Patent 6 – 363080-001 - Portable Audio Player for Farmers **(Design patent with Grant)-granted.**
- Patent 7 – 366057-001 – Smart Shoes for Healthcare **(Design patent with Grant) – pending.**

Research Guidance

Sl.No.	Scholar Name	University	Area of the Research	Research Status
NA				

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
NA			

Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
1	Thanjavur District Police	Development of Mobile Application	NA	2021-2022

Workshops / Seminars attended

-NA-

Faculty Development Program attended

1. One week online STTP by Centre for AI, IoT and Roboitcs, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai during 12 – 16 June 2023.

2. 7 Day National level Online Faculty Development Program on "Outcome Based Education" in association with "The Kerala State Higher Education Council"

Events Organized:

1. Coordinator, Annual Day Celebration, SRIT on 17th March 2023

2. Coordinator, Refresher's Program, SRIT

3. Coordinator, CSE Students, Experiential Learning, SRIT

4. TEDX Talk, Innovation Hub Club, SRIT

Online Courses attended

Sl.No.	Title	Platform
1	30 hours online course on Machine Learning for Data Science using Python, organized by NIT Warangal during 25th April 2023 to 10th May 2023	Online

Awards and Recognitions Secured

- **INVIDE 2023 Best Innovation Double Gold Diploma Award, International Virtual Expo of Innovation Product and System Design 2023 on 23rd June 2023.**
- **Silver Award, International Virtual Expo of Innovation Product and System Design 2023 on 23rd June 2023.**
- **SRIT Best Award, International Virtual Expo of Innovation Product and System Design 2023 on 23rd June 2023.**
- **Evaluator, Kavach 2023, for valuable contribution during the pre-screening evaluation.**
- APPRECIATION CERTIFICATE, by Thanjavur District Police for completing a consultancy project "JOB RACKETING", a mobile application.
- **GOLD MEDAL** given by Human Rights Organization, Chennai, Entrepreneur for doing best service to the society, 2007.

- **STAR AWARD** given by Kovai Kalaimagal Educational Trust as a Best Performer, 2006.

Self-appraisal (3 major - Strength and Weakness)

Strengths

Trans-Disciplinarity: a project-based course facilitates teachers to exit from the "ivory tower" with a transdisciplinary approach.

Highly motivated and goal-oriented, a team player with strong leadership skills, open-minded with good communication skills

Gregarious, confident and highly conscientious and compassionate person.

Weakness

Superficial Knowledge: as for students, a project-based course may undermine taught knowledge due to lack of time

I have trouble saying "no"

Getting caught up in details

Signature