



## **Mrs. J. Gayathri**

Assistant Professor – Computer Science

📍 Coimbatore, Tamil Nadu, India  
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🔗 IRINS Profile: <https://psgrkcw.irins.org/profile/267494>



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## **PROFESSIONAL SUMMARY**

An experienced Computer Science academician with 10+ years of teaching experience and 10+ years of research exposure, currently pursuing a Ph.D. in Computer Science. Specialized in Data Mining, Web Data Analytics, Semantic Web, and Information Security, with strong contributions in teaching, research publications, accreditation activities, and academic administration.

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## **AREA OF SPECIALIZATION**

- Data Mining
- Web Data Mining
- Semantic Web
- Database Systems
- Cryptography & Network Security

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## **EDUCATIONAL QUALIFICATIONS**

- Ph.D. (Pursuing) – Computer Science  
*Bharathiar University, Coimbatore*
- M.Phil – Computer Science (2012–2014)  
Government Arts and Science College, Bharathiar University
- M.Sc – Computer Science (2009–2011)  
PSG College of Arts & Science, Coimbatore (Autonomous)
- B.Sc – Computer Science (2006–2009)  
KG College of Arts & Science, Bharathiar University
- SET / SLET Qualified

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## **PROFESSIONAL EXPERIENCE**

Assistant Professor – Computer Science (2022 – till)  
*PSGR Krishnammal College for Women, Coimbatore*

Assistant Professor – Computer Science (2011 – 2022)  
*KG College of Arts and Science, Coimbatore*

- Teaching Experience: 10+ Years
- Delivered undergraduate and postgraduate courses
- Guided student projects and academic activities
- Actively involved in accreditation, ranking, and institutional development processes

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## **SUBJECTS HANDLED**

- C, C++, Java
- RDBMS
- Cryptography & Network Security
- System Software & Software Engineering
- Graphics & Multimedia
- DFA
- DevOps
- Full Stack
- Python
- Data Mining

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## **RESEARCH & THESIS**

Doctoral Research Title:  
*An Efficient Techniques for Mining Frequent Patterns from online transactional data streams.*

M.Phil Research Title:  
*An Enhanced Web Data Learning Method for Integrating Item, Tag, and Value for Mining Web Contents*

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## **PUBLICATIONS**

### Journal Articles

- Gayathri J., Saraswathi K., Extraction of Data from Streaming Databases, International Journal of Computer Trends and Technologies, ISSN: 2231-2803, Vol. 4, Issue 9, October 2013.
- Gayathri J., Understanding User Privacy in Internet of Things Environment, International Journal of Innovative Computer Science and Engineering, Vol. 4, Issue 4, May 2017.
- Gayathri J., Dependable Semantic Web, International Journal for Scientific Research and Development, ISSN: 2395-1052, March 2018.
- Gayathri J., An Analysis of Frequent Pattern Mining Techniques at Multiple Time Granularities, Indian Journal of Natural Sciences, ISSN: 0976-0997, Vol. 12, Issue 68, October 2021.
- Gayathri J., Mining Frequent Patterns with Varying Size Window at Multiple Time Granularities Using SWP Tree, Design Engineering, ISSN: 0011-9342, Vol. 2021, Issue 9, December 2021.
- Gayathri J., Linear Prefix Tree and Laplace Accuracy Based Frequent Pattern Mining Technique, Journal of Data Acquisition and Processing, ISSN: 1004-9037, Vol. 37, Issue 5, December 2022.
- Gayathri J., *A Modified Squirrel Search Algorithm for Successive Transaction Based Frequent Pattern Mining from Streaming Data*, International Journal of Advanced Science and Engineering, E-ISSN: 2349-5359; P-ISSN: 2454-9967, Vol. 12, No. 1, Pages 5083-5100, September 2025.

### Books & Chapters

- Books Published as Co-Author: 3

### UGC Publications

- UGC-Recognized Journals: 2

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## **ACADEMIC ADMINISTRATIVE RESPONSIBILITIES**

- Nodal Officer – NIRF (2017 – 2019)
- Committee Member – NAAC (2008 – Till Date)

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## **PROFESSIONAL & ACADEMIC ENGAGEMENT**

- Resource Person – Workshops / FDPs
- Participation in Seminars & Conferences
- Member – Academic & Institutional Committees

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## **ACHIEVEMENTS**

- 2nd Prize – District Level Science Exhibition

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## **EXTRA-CURRICULAR & SOCIAL SERVICE**

- Sports: Throwball, Volleyball
- Active Member – Youth Helping Hands (YHH)
- Department-level Event Organizer

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## **PERSONAL DETAILS**

- Date of Birth: 10 August 1987
- Gender: Female
- Nationality: Indian
- Marital Status: Married
- Languages Known: Tamil (Mother Tongue), English

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