



Name : Dr. R. Jayasree

Designation : Assistant Professor

Department : BCA (Computer Applications)

Qualification : MCA., M.Phil., Ph.D.,

Experience : Teaching -14 Years

Research : 8 years

Area of Specialization(s) : Data Mining, Machine Learning

Email (Official ID) : jayasree@psgrkcw.ac.in

Academic Qualifications

Degree	Branch	Institution/ University Name	Year of Graduation
Ph.D.	Computer Science	Sri Krishna Arts and Science College	2025
M.Phil.	Computer Science	PSGR Krishnammal College for Women	2014
MCA	Computer Applications	Bharathiar University	2011
B.Sc.	Computer Science	Dr. NGP College of Arts and Science	2008

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
Mentor	NPTEL	PSGR Krishnammal College for Women	2022
Certification	Coursera	Completed 20 Coursera Courses	2024 ,2025

Research Publications (Indexed)

- Partition Document Clustering Using Ontology Approach IEEE International Conference on Computer Communication and Informatics, Jan. 04– 06, 2013, 978-1-4673-2907-1/13/\$31.00 ©2013 IEEE
- Clustering on High Dimensional data using locally linear embedding (LLE) Techniques, International Journal of Engineering Research and Applications (IJERA) ISSN:2248-9622, VOL-2, ISSUE 3, May-Jun 2013.
- Survey of Link Prediction Methods using Topology based Features, ISSN (Online): 2456-5717, International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST) Vol.4 Issue.2 February 2018.
- Student Performance Prediction using Random Decision (RD) Classification Algorithm, International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 7 No. 5 May 2022.
- Analyzing Student Performance using Fuzzy Possibilistic C-Means Clustering Algorithm- Indian Journal of Science and Technology, DOI: [10.17485/IJST/v16i38.226](https://doi.org/10.17485/IJST/v16i38.226), Year: 2023, Volume: 16, Issue: 38, Pages: 3230-3235-13th October 2023. ISSN: 0974-5645.
- Design Of Prediction Model to Predict Students' Performance Using Educational Data Mining and Machine Learning Volume 59, Issue 1, 25. 12th December 2023, ISSN: 2673-4591.
- Regression Based Student Performance Prediction Indian Journal of Natural Science –Vol.14 / Issue 81 / Dec / 2023 International Bimonthly (Print) – Open Access, ISSN: 0976 – 0997, Page no: 64397 - 64403

Other Publications: International/National

- An Efficient Clustering Text Clustering Using SGEM Algorithm International Journal of Advanced Research in Data Mining and Cloud Computing ISSN 2321-8754 ONLINE ISSN 2321-8924 Print vol.2, Issue 11, November 2014
- A New Content Based Text Clustering Using Spherical Gaussian EM Algorithm, CIIT International Journals, 2014.
- A recent exploration on student performance analysis using educational data mining methods by International Journal of Innovative Technology and Exploring Engineering (IJITEE) on 30 August 2022 | PP: 6-10 | Volume-11 Issue-9, August 2022 |DOI: [10.35940/ijitee.G9188.0811922](https://doi.org/10.35940/ijitee.G9188.0811922), ISSN:2278-3075(Online)
- Artificial Intelligence in Education: Tailoring Curriculum to Individual Student Needs through AI-Based Systems, Library Progress International, Library Progress International| Vol.44 No.3\page no: 8847-8856 | Jul-Dec 2024, Print version ISSN 0970 1052, Online version ISSN 2320 317X.

Book Published

- Bioinformatics Laboratory Manual, Published By: Blue Hill Publishers, Coimbatore, 2018, ISBN Number: 9788193708835
- Standard Operating Procedures for R Programming, Published by: Coimbatore Institute of Information Technology, Coimbatore, Year: 2019, ISBN 978-81-939960-6-5.
- OOPs with Java, Lab manual, Published by Coimbatore Institute of Information Technology, Coimbatore in 2021, ISBN: 978-93-91347-39-0.
- Web Explorers Handbook, ISBN: 978-93-6126-907-3, Published by Coimbatore Institute of Information Technology, Coimbatore in 2024.
- Crack the C Code for Beginners, published by Coimbatore Institute of Information Technology, Coimbatore in 2025, ISBN: 9789361267246, 93-6126-724-8

Book Chapter Published

- Enhancing Cybersecurity Insurance through AI and Blockchain for Proactive Risk Management, in Book Chapter – Cybersecurity Insurance Frameworks and Innovations in the AI Era by IGI Global Scientific Research Books on June 2025, ISBN – 979-83-373197-7-3- SCOPUS
- Secure and Resilient Routing Protocols for Mobile Ad Hoc Networks in 6G Environments, Published in Book Chapter Multidisciplinary Research & Innovation, ISBN: 978-81-986735-8-9 by Merimax International Publications
- The Rise of Explainable and Generative AI-Driven Cyber and Information Security: 9798337378527: Security & Forensics Books by IGI Global Scientific Research books on December 2025, ISBN13: 9798337378527

Short Term Course

- Completed more than 22 short term courses like AWS Cloud Computing, Data science, Advanced Python Programming, Mobile Applications, Cybersecurity, Digital Teaching Techniques.

Letter of Appreciation

- Received a Letter of Appreciation from NPTEL–SWAYAM for mentoring “Database Management System”

Acted as a Resource Person

- Acted as a resource person for Guest Lecture on Database Management System-Normalization to the Department of Computer Applications, KG College of Arts and Science.

Reviewer in journal

- Asian Journal of Probability and Statistics
- International Neuropsychiatric Disease Journal
- Archives of Current Research International
- Physical Science International Journal

Paper Presentations in Conference

International: 20

National: 10

- “Channel Allocation Method for Jamming Attack Detection (CAMJAD) for Mobility Management in MANET” in International Conference on Advanced Technologies for Societal Applications: Techno-Societal 2024, 13th-14th December 2024.
- “CAD Design and Testing Across Automation to Autonomous Systems”, in Second International Conference on Recent Trends in Computer Science and Data Analytics on 2nd February 2024.
- “Study of Aerospace robotics and mechatronics System”, in Second International Conference on Recent Trends in Computer Science and Data Analytics on 2nd February 2024.
- “Identification of Drug Discovery and Development using AI”, in Second International Conference on Recent Trends in Computer Science and Data Analytics on 2nd February 2024.
- “Analysis of Edge Computing in 5G”, in Second International Conference on Recent Trends in Computer Science and Data Analytics on 2nd February 2024.

- “Personalized Recommendation Application Using AI” in international conference on Advanced IT, Engineering and Management on 10th & 11th January 2024.
- “Virtual Fence for College Campus” in International Conference on Transformative and Inclusive Science for Sustainable Future on 28th February 2025.
- “How AI is changing the way we search vs Traditional search” in International Conference on Artificial Intelligence and Emerging Technologies on 26th September 2025.
- “Sustainable Practices in Digital Visual Communication reducing environmental impact” in international conference on Recent Trends in Multi-disciplinary research and innovation on 19th September 2025.
- “Multi-Layer Ensemble Learning for Classification Human Emotion Analysis from EEG Signals” in 3rd IEEE international conference for women in innovation, technology, Entrepreneurship on 26th & 27th September 2025.
- “Adaptive intelligent optimization model for enhanced medical image analysis and predictive diagnosis using heterogeneous healthcare data” in first international conference on advances in engineering and computing technologies for sustainable development on 12th & 13th December 2025.
- “Secure and Dynamic Routing in Mobile Ad-Hoc Networks through Cryptographic Assurance” in 6th International Conference on Computing Science, Communication and Security (COMS2)” on 12th - 13th September 2025.

Participation in Workshop: 10

Participation in Faculty Development Programme: 50

Participation in Webinar: 25

Conference/Seminar/Workshop Organized: 10

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Science Congress Association	Lifetime Member	2023 - Lifetime

Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Best Mentor	PSGR Krishnammal College for Women, Alumni Association	2025
Excellence in Education Award	Masters Professional Academy	2025
Best Woman Faculty Award	Turight National Educational Awards	2025

Indexing and Citations

Orcid Id: <https://orcid.org/0000-0002-6276-2137>

Researcher Id: <https://www.webofscience.com/wos/author/rid/AAF-2069-2020>

Google Scholar Id: <http://scholar.google.co.in/citations?user=ZoOUxlgAAAAJ>

Profile URL / IRINS: <https://psgrkcw.irins.org/profile/135888>

Vidwan-ID: <https://vidwan.inflibnet.ac.in/profile/135888>

RNI [INFLIBNET]: <https://sherni.inflibnet.ac.in/profile/135888>

Scopus ID: 59020855700

Contribution

- DBT Coordinator (2016-2018)
- ISO In-Charge (2017-2018, 2024 till date)
- Organizer for Spoken Tutorial (2017 to till date)
- Member in Board of Studies, PSGRKCW
- Class In-Charge till date
- Exam Scheduling & Allotment Activities (2018-2022)
- Admission Duties (2012-2013, 2019-2020, 2021-2022, 2024-2025)
- NASSCOM Coordinator (2021-2022)
- Computational Thinking and Problem-Solving Mentor (2022 to till date)
- Turbostart- Internship – Organizer
- Alumni Association Joint Secretary (2023 till date)
- NAAC Criteria I – Curriculum Enrichment In charge (2020 till date)
- Organized Pilot Job Fair by Spoken Tutorial, IIT Bombay to PSGRKCW Students 2022 batch