

1. Name: **Dr. K. Jayavani**
2. Designation: Assistant Professor, Department of Computer Applications
3. Qualification: B.Sc., M.C.A., M.Phil., Ph.D., SET
4. Mobile number: 9894634845
5. E-mail id: jayavanibca@auxiliumcollege.edu.in
6. Teaching Experience: 13 years
7. Area of specialization: C Programming, Mobile Application Development, Digital Image Processing, Operating System, RDBMS, Datamining, Fundamentals of Information Technology, Python programming, Etc.,
8. Positions held: Assistant Professor
9. Research Experience and Guidance: Guided M.Phil. students for 5 years – 20
10. Projects Completed / Ongoing: NIL
11. No. of Papers Published: 10
12. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 10
13. No. of Seminars/Workshops/Conferences organized: 1
14. No. of Books Published/Edited/Co-edited: 3
15. Current Responsibilities: Assistant Professor, Department of Computer Applications
Since June, 2025
16. Membership in professional bodies (Descriptive): NIL

Paper Publications:

1. Optimal Data Prediction and classification Applicable for Intelligent Heart Disease Diagnosis System, International Journal of Computational Intelligence and Informatics. Sep 2015 Vol.5 No.2 144-153 . ISSN Number 2349-6363, First Author
2. Hybridization of ABC and PSO for optimal rule extraction from knowledge discovery database, International Review on Computers and Software (IRECOS), Sep 2014 Vol.9 N.9 P. No 1533-1540. ISSN Number 1828-6003, First Author
3. Surveillance of efficient algorithms for Mining Frequent item sets and Closed Frequent item sets. International Journal of Informative & Futuristic Research (IJIFR) July 2014, Vol.1 Issue.11, P. No 174-183. ISSN Number 2347-1697, First Author
4. Study of Genetic algorithm, An Evolutionary Approach, International Journal of Applied Engineering Research (IJAER). 2014, Vol.9 N.23, P. No 19653-19662, ISSN Number 0973-4562, First Author
5. Dimension Reduction Based on Ant Colony Optimization with Efficient KNN for Predicting Optimal Solution, Journal of Emerging Technologies and Innovative Research (JETIR), June 2019, Vol.6 Issue.6, P. No 26-31, ISSN Number 2349-5162, Second Author

6. Diagnosing Hepatitis Disease Efficiently Using Case Based Swarm Intelligence Techniques, International Journal of Advance Engineering and Research Development (JJAERD), 2019, Vol.6 Issue.7, P. No 133-137, ISSN Number e-ISSN(O): 2348-4470, p-ISSN(P): 2348-6406, Second Author

International Conferences: 2

1. Trends in Technology for Convergence - Association Rule Mining with the Combination of ABC and PSO for Optimal Rule Extraction (**International Conference**)
2. One day **International** level conference on “Sustainable AI Solutions for a Digital Future” entitled “Quantum Leap: Emerging Technologies in IT”, organized by Department of Computer Applications, Sree Abiraami Arts & College Science College for Women, Gudiyattam.

Conferences/Symposia/Seminar/Workshop/Faculty Development Program Participation Details

1. Horizon in Computing Technologies and Applications - Data warehousing and knowledge discovery using historical dataset with optimization technique.
2. Advances in Machine Intelligence - Statistical classification in Machine Intelligent
3. Recent Trends in Information Technology & Computer Application - Using Optimization Techniques in KDD
4. System Design and Information Processing - Optimal Rule Extraction from KDD in Datamining and Warehousing
5. Innovation in Computing and Communication Technology - Analyze Different Approach for IDS (Intrusion Detection System) Using KDD CUP 99 Dataset
6. Data Mining Tools and Techniques-Practical Approach (Workshop)
7. A Research Perspective (Workshop)
8. Recent Trends in Information Technology & Applications (Workshop)
9. Data Mining (Workshop)
10. Five days Faculty Development Program (FDP) on “Advanced Education through AI – Driven Technology Enhanced Pedagogies”, organized by Sacred Heart College, Tirupattur.

Books Published and Authored:

1. Wireless Application Protocol - ISBN 978-93-80173-25-2 – **National** level – Single Author
2. Java Script – For Starters - ISBN 978-93-80173-26-9 – **National** level – Single Author
3. Wireless Networking Basics & Computers - ISBN-978-93-80173-27-6 – **National** level – Single Author

Programmes Organized:

1. Organized **National** Level Workshop on “Elevate your skills: Cloud, Containers and Observability” by PG Department of Computer Science, Auxilium Collage, Autonomous, Gandhi Nagar, Vellore