

**Name** : R.Uma  
**Designation** : Assistant Professor  
**Department** : Data Science  
**Qualification** : MCA., M. Phil., M.Ed., SET., Ph.D.,  
**Experience** : Teaching – 22 Years  
**Area of Specialization(s)**: Data Mining, Machine Learning  
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### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Raja Doraisingam Government Arts College, Sivaganga / Alagappa University	September 2025
SET	Computer Science & Applications	Mother Teresa Women's University, Kodaikanal	February, 2016
M.Ed.,	Computer Science	Nadar Saraswathi College of Education / Tamilnadu Teacher's Educational University	March 2013
B.Ed.,	Computer Science	Arumugam Nallamani College of Education / Tamilnadu Teacher's Educational University	March 2011
M.Phil.	Computer Science	Madurai Kamaraj University, Madurai	April 2007
MCA	Computer Applications	Madurai Kamaraj University, Madurai	November 2002
B.Sc.	Computer Science	Sermathai Vasan College for Women/ Madurai Kamaraj University, Madurai	April 1998

### Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	Problem Solving using C	NPTEL	
Certification	Excel Essentials for Data Analytics	Coursera	2026

### Research Publications (Indexed)

#### International:

- Vol 3, Issue SI(01), April 2015, "Mining of Students Satisfaction their college in Theni", International Journal of Advanced Technology in Engineering and Science (IJATES), ISSN: 2348-7550
- Vol 5, Issue 8, August 2016, "A Hierarchical Model to Classify Brain Cancer using GLCM", International Journal of Science & Research,ISSN:2319- 7064

- Vol 6, Issue 3, March 2017, “Comparative analysis of hepatitis disease using various clustering algorithm, International Journal of Science & Research, ISSN: 2278 – 1323
- Vol 6, Issue 3, March 2017, Relative exploration of website ranking using clustering algorithms, International Journal of Science & Research, ISSN: 2278 – 1323
- Vol 6, Issue 3, March 2017, Color based remote sensing Image segmentation using Fuzzy c-means and improved Sobel edge detection Algorithm, International Journal of Computer Science Engineering, ISSN: 2319 – 7323
- R.Uma, Dr.J.Arunadevi, K.Bhuvaneshwari, ”Analysis of Population based Metaheuristics algorithms for Optimization of Functions” , published in Advances and Applications in Mathematical Sciences (ISSN 0974-6803). Indexed in Emerging Sources Citation Index (ESCI) (Web of Science) UGC Care List
- J.Arunadevi, R.Uma, “A study of hybridizing Population based Metaheuristics”, International Journal of Pure and Applied Mathematics 119 (12), 15989-15994, ISSN: 1314-3395 (SCOPUS INDEXED)

#### **Other Publications: International / National**

- Performance Examination for Placement Selections, National Level Seminar on Emerging Trends in Computing Technologies,
- Mining of Students Satisfaction their college in Theni, International Conference on Emerging Trends in Technology, Science and Upcoming Research in Computer Science (ICDAVIM '15), ISBN: 978-81-931039-3-7
- Educational Cloud Computing, National Conference on Innovative Technologies & Advanced Computing, NCITAC '15, ISBN : 978-81-93023-49-5
- Predictions of College Students Academic Performance in Location Wise, International Conference on Innovative Marketing Strategies for Sustainable Growth- Issues and Challenges, ISBN : 978-93-85477-14-0
- Ovarian Cancer Detection and Identification using Fuzzy C Means and Improved Sobel Edge Detection Algorithm., National Conference on Recent Explorations in Science, Engineering and Technologies, ISBN: 978-81-910178-8-5
- R.Uma, S.Nagarathinam, Study on Classification techniques in Data Mining, International Journal of Computer Engineering and Applications, Volume XII, Issue I, Jan. 18, www.ijcea.com ISSN 2321-3469, UGC Approved Journal Sr. No.44835.
- R.Uma, Study on Swarm Intelligence Algorithms, National Conference on “Recent Perspectives in IoT & Big Data” NCIB'18, ISBN – 9789353004255, Feb'2018.
- R.Uma, “Swarm Intelligence based algorithms: Study report” presented in National conference on Recent perspectives on Internet of Things(IOT) & Big data, Nadar Saraswathi College of Arts and Science , Theni on 9th and 10th Feb 2018.
- R.Uma, J.Arunadevi, “A study on metaheuristics”, presented in International Conference on Information, Communication Digital security (ICICDS – 2018), Alagappa University, Karaikudi on 21st and 22nd March 2018.
- R.Uma, Dr.J.Arunadevi, “Analysis of Hybrid Meta heuristics algorithms for Optimization of Functions with many Local Minima”, International Conference on Digital Transformation (ICDT -March, 2020), The American College, Madurai on 5th and 6th March 2020.

### **Board of Studies Member:**

- B.Sc., IT programme in Sree Saraswathy Thiagaraja College from 2024.
- BCA programme in Sri GVG Visalakshi College for Women Udumalpet from 2023
- B.Sc., Computer Science programme in Sri Kaliswari College, Sivakasi from 2026

### **Resource Person / Guest Lectures Delivered**

- Delivered a Guest Lecture on **Operating Systems** for B.Sc. (Computer Science) and MCA students at Arul Anandar College.
- Delivered a Guest Lecture on **Career and Placement Opportunities for Computer Science Students** at Arul Anandar College.
- Delivered a Guest Lecture on **Big Data and Cloud Computing** for UG and PG students of Computer Science, Information Technology, and Computer Applications at Nadar Saraswathi College of Arts and Science.
- Delivered a Guest Lecture on **Big Data Analytics** for UG and PG Computer Science students at Sri Kaliswari College.
- Delivered a Guest Lecture on **Ethical Hacking** for Undergraduate Computer Science students at AKD Dharmaraja College for Women.
- Delivered an **Orientation Session on Pre-incubation and Incubation Management** for MBA students at Nadar Saraswathi College of Arts and Science.

### **Workshops Attended**

- Participated in **40+ workshops** on emerging technologies, enhancing technical expertise and academic competencies.

### **Faculty Development Programmes (FDPs) Attended**

- Attended **40+ Faculty Development Programmes (FDPs)** in various emerging and advanced technology domains.

### **Conferences, Seminars, and Workshops Organized**

- Organized and coordinated numerous **workshops, guest lectures, seminars, and national/international conferences** on diverse academic and research themes.
- Successfully organized and coordinated an **AICTE-ATAL sponsored Faculty Development Programme (FDP)** with a funding grant of **₹1,00,000**.

### **Academic and Administrative Contributions**

- Served as **Class Tutor** for the **2025 Batch** students, providing academic guidance, mentoring, and student support.

### **Professional Highlights**

- Acted as a **Resource Person** for invited lectures and orientation programmes across reputed higher educational institutions.
- Contributed actively to academic development through teaching, training, event organization, mentoring, and professional development activities.