

**Name** : M.ARUNA  
**Designation** : Assistant Professor  
**Department** : Computer Technology  
**Qualification** : M.C.A., M.Phil., (Ph. D)  
**Experience** : Teaching: 17.2 Years Research: 10 Years  
**Area of Specialization(s)** : Data Mining, Big Data Analytics  
**Email (Official ID)** : aruna.m@dmngpasc.ac.in

### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
M.Phil	Computer Science	Annamalai University, Chidambaram	2008
M.C.A	Computer Applications	Anna University, Chennai	2005
B.C.A	Computer Applications	Bharathidasan University, Tiruchirappalli	2002

### Additional Qualification

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Spoken Tutorial Certification	C, C++	IIT, Bombay	April 2014
Spoken Tutorial Certification	LaTeX	IIT, Bombay	May 2014

### Research Publications (Indexed)

#### National

1. M.Aruna ,V. Srinivasan, Dr. G. Rajenderan, Ms. J. Vandar Kuzhali, “Fuzzy Classification to Classify the Income Category Based on Entropy”, Journal of Computer science and Technology Vo. 11 No.2 PP. 81 – 85 ISSN:1666-6046, 2011

### **International**

1. M.Aruna, V. Srinivasan, Dr. G. Rajenderan, Ms. J. VandarKuzhali, Fuzzy fast classification algorithm with hybrid of ID3 and SVM. Journal of Intelligent & Fuzzy Systems. vol.24 pp.556-561. ISSN:1860-4749, 2013.
2. M.Aruna, Dr.S.Sukumaran, Dr.V.Srinivasan A Fuzzy Approach to Replace the Missing Data in Large Dataset International Journal of Applied Engineering Research, Vol. 10, pp. 28312-28317.
3. M.Aruna, Dr. S.Sukumaran, Dr.V.Srinivasan Precision Clustering Based on Boundary Region Analysis for Share Market Database, International Journal of Computer Sciences and Engineering, Vol.7,issue.4 2347-2693,2019.
4. M.Aruna, Dr.S.Sukumaran, Dr.V.Srinivasan, Feature Selection for Share Market Dataset Using Entropy and Information Gain JASC: Journal of Applied Science and Computations Volume VI, Issue IV, 1076-5131 , April 2019 .
5. M.Aruna, Dr.S.Sukumaran, Dr.V.Srinivasan , Mean Centroid K-Means Clustering (MCKM) Based on Boundary Region Analysis for Share Market Database CiiT International Journal of Digital Signal Processing, Vol 12, No 1, January 2020.
6. M.Aruna, Dr.S.Sukumaran, Dr.V.Srinivasan, Hybridization of Fuzzy Label Propagation and Local Resultant Evidential Clustering Method for Cancer Detection International Journal of Engineering Trends and Technology , 70(9), pp. 34–46,2022.

### **Presentations in Conference**

1. INFORMATION SECURITY ISSUES IN GOVERNING FINANCIAL TRANSACTIONS, National Conference on Cyber Crime and Security Management, Kongu Engineering College Erode. November 2007.
2. PRIVACY PRESERVING DATA MINING, NATIONAL CONFERENCE ON COMPUTER AND COMMUNICATION, Sri Vasavi college, Erode. February 2008
3. SEARCH ENGINE OPTIMIZATION TO TOP LIST YOUR WEBSITE IN DIFFERENT SEARCH ENGINE, National Conference on Information and Computer Applications, Sengunthar Engineering College, Tiruchengode. August 2008
4. A FUZZY CLASSIFICATION PROBLEM WITH INCOMPLETE AND MISSING DATA TO PREDICT THE FUTURE RESULT AND CLASSIFICATION, International Conference on Convergence of science and Engineering in Education and Research A Global Perspective in the New Millenium, Dayananda Sagar College of Engineering, Bangalore, Karnataka, April-2010

5. CLASSIFY THE PLACEMENT RECORD USING ROUGH SET THEORY AND SUPPORTVECTOR MACHINE, National Conference on Recent Trends in Innovative Technologies, Vellalar College of Engineering and Technology, Erode, March 2010.
6. FAST DETECTION OF MOBILE REPLICATED NODE ATTACKS USING SEQUENTIAL HYPOTHESIS TESTING, National Conference on Horizons in Computing Technologies and Applications, National Conference on Horizons in Computing Technologies and Applications, Vellalar College of Engineering and Technology, Erode, March 2013.
7. K-FAST CLUSTERING BASED FEATURE SUBSET SELECTION ALGORITHM FOR HIGH DIMENSIONAL DATA, National Conference on Horizons in Computing Technologies and Applications, Vellalar College of Engineering and Technology, Erode, March 2014.
8. MINING RELATIONAL DATABASES USING LINK ANALYSIS, National Conference on Trends in Engineering Applications and Management, Vellalar College of Engineering and Technology Erode, March 2015.
9. A SYSTEM TO FILTER UNWANTED MESSAGES FROM OSN USER WALLS, National Conference on Trends in Engineering Applications and Management, Vellalar College of Engineering and Technology, Erode, March 2016.
10. PREDICTING STUDENT PERFORMANCE USING DATA MINING METHODS FOR CLASSIFICATION, National Conference on Trends in Engineering Applications and Management, Vellalar College of Engineering and Technology, Erode, March 2017
11. FEATURE SELECTION FOR SHARE MARKET DATASET USING ENTROPY AND INFORMATION GAIN, National Conference on Intelligent Learning and Computing, Sri Krishna Arts and Science College, Coimbatore February 2019
12. MEAN CENTROID K-MEANS CLUSTERING BASED ON BOUNDARY REGION ANALYSIS FOR SHARE MARKET DATASET, International Conference on Recent Trends in Advanced Computing, Erode Arts and Science College, Erode December 2019

#### **Book Chapters**

1. M.Aruna Design of Quality Precision Agriculture Using F-P Filters, Research Algorithms in Real World Applications ISBN: 976-93-5780-385-4 , NOVEMBER 2022

#### **Participation in Seminars**

1. **MOBILE COMMUNICATION**, Vellalar College of Engineering and Technology, Erode  
1-AUG- 2008.

2. **RESEARCH IN COMPUTERS WHY, WHAT AND HOW?**, Velalar College of Engineering and Technology, Erode, 13-DEC-2010
3. **SECURITY ISSUES IN CLOUD COMPUTING**, Velalar College of Engineering and Technology, Erode, 17-JUNE-2013 to 18-JUNE-2013
4. **AVENUES OF RESEARCH**, Velalar College of Engineering and Technology, Erode, 28-DEC-2013
5. **RESEARCH AVENUES IN CONTEMPORARY COMPUTING TECHNIQUES**, Vellalar College for Women, 14-SEP-2014
6. **ENHANCING RESEARCH POTENTIALS IN CSE & IT**, Velalar College of Engineering and Technology, 29-NOV-2015
7. **SECURITY ISSUES IN IOT**, Velalar College of Engineering and Technology, 03-FEB-2017 & 04-FEB—2017
8. **INNOVATIVE COMPUTING INTELLIGENCE FOR MEDICAL IMAGES**, Vellalar College for Women, 27-JULY-2017
9. **APPLICATIONS OF MATHEMATICS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**, Velalar College of Engineering and Technology ,10-JULY-2019
10. **EMERGING APPLICATIONS OF NUMBER THEORY**, Velalar College of Engineering and Technology, 18-SEP-2019
11. **APPLICATIONS OF MATHEMATICS IN CRYPTOGRAPHY AND INFORMATION SECURITY**, Velalar College of Engineering and Technology, 22-FEB-2019
12. **CONTRIBUTIONS OF MATHEMATICAL MODEL IN BIOMEDICAL IMAGING**, Velalar College of Engineering and Technology ,14-MAY-2019
13. **JOB SKILLS TO SUCCEED IN A POST PANDEMIC WORLD**, ICT Academy, 04-MAY-2020
14. **AI AND MACHINE LEARNING**, Nandha Engineering College, Erode, 11-JUNE-2020
15. **FUTURE IN IT ERA**, Hindusthan College of Technology, 13-JUL-2020 to 17-JUL-2020
16. **THE FUTURE OF MAKING**, ICT Academy, 14-APR-2020
17. **INTRODUCTION TO AI & ML** , ICT Academy, 15-APR-2020
18. **CYBERSECURITY ESSENTIALS**, ICT Academy, 16-APR-2020
19. **DESIGN THINKING - PREPARING THE MIND FOR DISRUPTION**, ICT Academy, 17-APR-2020

20. **JOB SKILLS TO SUCCEED IN A POST - PANDEMIC WORLD**, Sky campus, 04-MAY-2020
21. **ROBOTICS AND MACHINE LEARNING**, AIMAN College of Arts and Science for women, 24-SEP-2021

#### **Participation in Workshop**

1. **NET FRAMEWORK AND ITS APPLICATIONS**, Velalar college of Engineering and Technology, 01-MAR-2014
2. **DATA MINING USING WEKA**, Velalar College of Engineering and Technology, 05-MAR-2014
3. **CYBER SECURITY**, Velalar College of Engineering and Technology, 11-FEB-2017
4. **PEDAGOGY ON EMOTIONAL INTELLIGENCE SKILLS FOR CAREER GROWTH AND SUCCESS**, Velalar College of Engineering and Technology ,01-JULY-2019 to 06-JULY-2019
5. **GRAPH THEORY AND ALGORITHMIC ASPECTS OF SOCIAL MEDIA NETWORKS**, Velalar College of Engineering and Technology ,15-MAY-2019
6. **STRATEGIC TECHNIQUES FOR PREPARING AND UPLOADING E-CONTENT TOWARDS MOOC COURSES**, IQAC of Vellalar College for women, 29-SEP-2021.

#### **Participation in Faculty Development Programme**

1. **TECHNIQUES AND ADVANCES OF EFFECTIVE TEACHING**, Velalar College of Engineering and Technology, Erode 18-JUL-2014
2. **VIRTUAL LEARNING** Velalar College of Engineering and Technology, Erode, 18-DEC-2014
3. **MOBILE COMPUTING AND MOBILE APPLICATION DEVELOPMENT LABORATORY** Velalar College of Engineering and Technology , Erode 30-NOV-2015 to 02-DEC-2015
4. **INTERNET PROGRAMMING**, Mahendra Engineering College for Women, 12-JUN-2018 to 18-JUN-2018
5. **RESEARCH VISIBILITY- RESEARCH IMPACT AND METRICS**, IQAC, Velalar College of Engineering and Technology, Erode, 11-May-2020 To 13-May-2020
6. **AMAZON WEB SERVICES**, Sri Krishna College of Engineering and Technology, in collaboration with Brainovision Solutions India Pvt.Ltd & All India Council for Technical Education – AICTE, 22-AUG-2022 to 27-AUG-2022.
7. **EMERGING TRENDS IN MACHINE LEARNING AND DEEP LEARNING TECHNIQUES**, Madanapalle Institute of Technology and Science, Madanapalle, 2-Jan-2023 to 6-Jan-2023.
8. **MACHINE LEARNING AND ITS REAL-TIME APPLICATIONS**, Sri Manakula Vinayakar Engineering College , Puducherry, 06-Mar-2023 to 10-Mar-2023.

### Invited Speaker / Seminar / Workshop

1. Guest Lecture on Data Structures, MPNMJ Engineering College, 19-NOV-2011.
2. Acted as a Resource Person for the One-day workshop on, Visual Basic, Vasavi College, Erode, 22-AUG-2015.
3. Acted as a Resource Speaker for AICTE Sponsored STTP on 'Deep Learning Applications and Challenges in Big Data Analytics and handled a session on "NoSQL - Case Study", 10 SEP 2020.
4. Acted as Jury for YUGHA'22, VET Institute of Arts and Science College on 29-APR-2022.

### Membership in Professional Bodies

Name of the Professional Body	Nature of Membership	Duration
ISTE	Life-Time	-

### Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Appreciation for Producing 100% and more than 95% Results in University Examination	Velalar College of Engineering and Technology, Erode	2011 to 2018
Received Appreciation for outstanding Contribution of using ICT based Teaching and Learning Methodology for Students	IIT Bombay	2016
Received Appreciation for outstanding Contribution of using ICT based Teaching and Learning Methodology for Students	IIT Bombay	2019