

## FACULTY PROFILE FOR WEBSITE

Name	:	Ms.M.Rajathi	
Designation	:	Assistant Professor	
Department	:	Software Engineering	
Educational Qualification	:	M.Sc (CS)., M.Phil(CS)., B.Ed(CS).,	
Subject of Interest	:	<b>Data Mining and Stochastic Modeling</b>	
Publications :	:	<p><b>International:</b></p> <ol style="list-style-type: none"> <li>1. <b>Dr.R.Arumugam and M.Rajathi, “Applications of Manpower with Various Stages in Business Using Stochastic Models”,</b> - International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.3, Issue 1, January 2017, Page No. 95-100, ISSN-2455 1457.</li> <li>2. <b>Dr.R.Arumugam and M.Rajathi, “Applications of manpower levels for business using six and eight point state space in the stochastic models”,</b> - International Journal of Statistics and Applied Mathematics, Vol. No.2 Issue No.6 October 2017, Page No. 56-60, ISSN- 2456-1452.</li> <li>3. <b>M.Rajathi and Dr.R.Arumugam, “A Study on PageRank Algorithm using Markov Chain Model”,</b> Shanlax International Journal of Arts, Science and Humanities, Vol.5, Special Issue 4, April 2018, Page No. 97-101, <b>UGC Approved Journal Number 4S960</b>, ISSN- 2321-788X.</li> <li>4. <b>Dr.R.Arumugam and M.Rajathi, “Applications of Stochastic Models on Test mis-scaling in Educational and Psychological Measurement”</b> International Journal of Recent Trends in Engineering and Research (IJRTER), Vol.4, Issue 6, June 2018, Page No. 133-137, ISSN-2455 1457.</li> <li>5. <b>Dr.R.Arumugam, V.Yogendramani and M.Rajathi “Applications of Manpower System with Various Qualifications In Educational Institution Using Mortality Table Techniques”,</b> - International Journal of Modern Trends in Engineering and Research (IJMTER), Vol. No.5 Issue No.10 October 2018, Page No. 1-8 Scientific Journal Impact Factor(SJIF)- 5.278. ISSN-2349-9745.</li> <li>6. <b>R.Arumugam and M.Rajathi, “Manpower Levels for Business with Various Recruitment Rates in the Ten Point State Space System through Stochastic Models”,</b>- International Journal of Computer Sciences and Engineering (IJCSE), Vol. No.7, Special Issue No.2 January 2019, Page No. 58-61, <b>UGC Approved journal.</b> Impact factor.3.02, EISSN- 2347-2693</li> <li>7. <b>R.Arumugam and M.Rajathi, “Manpower Levels for Business with Various Recruitment Rates through</b></li> </ol>	

	<p><b>Stochastic Models</b>”,- International Journal of Engineering and Future Technology (IJEFT), Vol. No.16, Issue No.24 Feb 2019, Page No. 58-61, <i>ISSN- 2455-6432</i></p> <p><b>8. M.Rajathi and R.Arumugam, “Applications of Mobile Learning In The Higher Educational Institutions Through Statistical Approach”</b> International Journal of Recent Technology and Engineering, Paper Id: A3296058119, ISSN 2277-3878(online) / Impact Factor 5.11, Vo.8, Issue 1, May 2019, Page No 1431-1439, <b>indexed by Scopus</b></p> <p><b>9. R.Arumugam and M.Rajathi, “Applications of Manpower Levels for Business with various Recruitment Rates in the System Through Stochastic Models”</b> International Journal of Recent Technology and Engineering, ISSN 2277-3878(online) / Impact Factor 5.11, Vo.8, Issue 2S4, July 2019, Page No 719-722, <b>indexed by Scopus</b></p> <p><b>10. Dr.R.Arumugam, R.Rakesh and M.Rajathi, “A Statistical Approach on Experimental Study for Determining Switching Frequency of Inductive Sensor Using PLC”</b> International Journal of Research and Analytical Reviews (IJRAR), <b>E-ISSN 2348-1269, P- ISSN 2349-5138</b> / International Peer Reviewed Journal, Refereed Journal, Indexed Journal, Impact Factor 5.75, (Journal No : 43602)Vo.6, Issue 2, June 2019, Page No 469-473, Approved by UGC and ISSN.</p> <p><b>11. K. Subhiksha, Dr.R.Arumugam and M.Rajathi, “A Study on Applications of Transportation Problem to Minimize Cost in Various Pharmacies”</b> International Journal of Research and Analytical Reviews (IJRAR), <b>E-ISSN 2348-1269, P- ISSN 2349-5138</b> / International Peer Reviewed Journal, Refereed Journal, Indexed Journal, Impact Factor 5.75, (Journal No : 43602)Vo.6, Issue 2, June 2019, Page No 507-512, Approved by UGC and ISSN.</p> <p><b>12. R. Yasotha Nandhini, Dr.R.Arumugam and M.Rajathi, “A Statistical Approach on Applications of Inventory Management in the Departmental Store”</b> International Journal of Research and Analytical Reviews (IJRAR), <b>E-ISSN 2348-1269, P- ISSN 2349-5138</b> / International Peer Reviewed Journal, Refereed Journal, Indexed Journal, Impact Factor 5.75, (Journal No : 43602)Vo.6, Issue 2, June 2019, Page No 513-518, Approved by UGC and ISSN.</p> <p><b>13. Dr. R.Arumugam and M.Rajathi, “Applications of Manpower Levels for Business with Various Recruitment Rates in an Eleven point State space through Stochastic Models”,</b> Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10, Issue 12, Dec 2019, Page No 384-392, <b>An UGC-CARE Approved Group II Journal</b></p> <p><b>14. Dr. R.Arumugam, B. Sri Ranjani and M.Rajathi, “A Statistical Study on the Production of Crops Before and After Gaja Cyclone in the Delta Region around Thanjavur District”,</b> Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10,</p>
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Issue 12, Dec 2019, Page No 598-607, **An UGC-CARE Approved Group II Journal**

- 15. Dr. R.Arumugam, C. Gowri and M.Rajathi, "A Statistical Study on the Impact of Dengue Fever in Thanjavur District Using SPSS", Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.10, Issue 12, Dec 2019, Page No 671-683, An UGC-CARE Approved Group II Journal**
- 16. Dr. R.Arumugam, and M.Rajathi, " A Markov Model for Prediction of Corona Virus COVID-19 in India- A Statistical Study", Journal of Xidian University, ISSN 1001-2400/ Impact Factor 5.4, Vol.14, Issue 4, April 2020, Page No 1422-1426, An UGC-CARE Approved Group II Journal**
- 17. Mr. R.Rakesh, Dr. R.Arumugam and M.Rajathi, "A Statistical Study on Segregation and Reuse of Domestic Waste in Apartments at Metro Cities Using Automation Technology (PLC)", AEGAEUM JOURNAL, ISSN 0776-3808 / Impact Factor 6.1, Vol.8, Issue 4, April 2020, Page No 1214-1221, An UGC-CARE Approved Group II Journal**
- 18. M.Rajathi and Dr. R.Arumugam, "An Application of Spatial Data mining in the study of Corona Virus (COVID-19) Pandemic through Statistical Approach", AEGAEUM JOURNAL, ISSN 0776-3808 / Impact Factor 6.1, Vol.8, Issue 4, April 2020, Page No 1698-1704, An UGC-CARE Approved Group II Journal**
- 19. Dr. R.Arumugam, and M.Rajathi, "Air Pollution During Pre Pandemic Covid-19 and In The Lockdown Period At Chennai City: A Statistical Study", Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 5, No.15, May 2020, Page No 152-163, An UGC-CARE Approved Group I Journal**
- 20. R.Rakesh, Dr. R.Arumugam, M.Rajathi and U.SaravanaKumar "A statistical approach on experimental study for determining switching frequency of retro reflector sensor using PLC", International Journal of Advance Research, Ideas and Innovations in Technology, ISSN 2454-132X / Impact Factor 6.078, Vol.6, Issue 3, May-June 2020, Page No 640-647, Peer Reviewed Journal**
- 21. Dr. R.Arumugam, M.Rajathi, R.Rakesh and U.SaravanaKumar, "An Impact of Corana Virus Covid-19 in India During the Initial Lockdown Period - A Statistical Study", Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 6, No.9, June 2020, Page No 214-224, An UGC-CARE Approved Group I Journal**
- 22. Dr. R.Arumugam, M.Rajathi, T.Sureshkumar, R.Yasotha Nandhini, D.Aasha, "Manpower Levels for Business with Various Recruitment Rates in Twelve point State space through Stochastic Models", Juni Khyat, ISSN 2278-4632/ Impact Factor 6.625, Vol.10, Issue 7, No.10, July 2020, Page No 132-139, An UGC-CARE Approved Group I Journal**

- 23. S.Sowmya Bharathi, Dr. R.Arumugam, M.Rajathi, “A Statistical Study on Intelligence Quotient (IQ) test between males and females in the age group of 20 and 30 in Thanjavur District”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.11, Issue 12, Dec 2020, Page No 325-336, An UGC-CARE Approved Group II Journal**
- 24. M.Harikumar, Dr. R.Arumugam, M.Rajathi, “The Impact of COVID – 19 at Mayiladuthurai District, Tamilnadu: A Statistical Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.11, Issue 12, Dec 2020, Page No 349-362, An UGC-CARE Approved Group II Journal**
- 25. Dr. R.Arumugam, V.Nandhini, M.Rajathi, “The Impact of Diabetic based on BMI, BP and Sugar –A Statistical Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 1, Jan 2021, Page No 207-221, An UGC-CARE Approved Group II Journal**
- 26. Dr. R.Arumugam, K.RajaSri, M.Rajathi, “Students Health based on Body Mass Index of the High School Students During the academic years 2017-2020”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 1, Jan 2021, Page No 285-296, An UGC-CARE Approved Group II Journal**
- 27. Dr. R.Arumugam, S.Safrin Preethi, M.Rajathi, “Application of Latin Square Design in the Analysis of the Effectiveness of Four Different Traffic Violation on Road Accidents –A Study”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 2, Feb 2021, Page No 18-27, An UGC-CARE Approved Group II Journal**
- 28. K.Kanimozhi, Dr. R.Arumugam, M.Rajathi, “Students involvement in sports and cultural by using Correlation and Chi-square test”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 2, Feb 2021, Page No 167-178, An UGC-CARE Approved Group II Journal**
- 29. R.Rakesh, I. Karthic Subramiyan, Dr. R.Arumugam, M.Rajathi, “Experimental investigation of Switching Frequency of magnetic sensor Using Statistical approach”, Compliance Engineering Journal, ISSN 0898-3577 / Impact Factor 6.2, Vol.12, Issue 4, April 2021, Page No 155-165, An UGC-CARE Approved Group II Journal**
- 30. R.Rakesh, Dr. R.Arumugam, M.Rajathi, S.Sanjai, M.Gobinath, “A Mother-Child Aerial Dynamic Charging station for Survey Drones”, International Journal of Early Childhood Special Education (INT-JECSE)ISSN: 1308-5581 Vol 14, Issue 03, April 2022 / Impact Factor 6.2, Page No 2966-2973, An UGC-CARE Approved Group II Journal, Indexed by Web of Science**

		<p><b>31. M.Rajathi, S. Abinaya. and Dr. R.Arumugam,</b> Detection of Plant Leaf Diseases using Machine Learning Algorithm, Education and Society, ISSN : 2278-6864, Publisher : Indian Institute of Education UGC Care Group I. May 2023</p> <p><b>32. M.Rajathi, R.Navaneethan</b> “A SYSTEMATIC REVIEW OF PREDICTING ELECTIONS BASED ON SOCIAL MEDIA DATA”, Education and Society, ISSN : 2278-6864, Publisher : Indian Institute of Education UGC Care Group I. May 2023</p> <p><b>33. Ms.M.Rajathi, Mr.M.Mohamed Kuvasith,Mr.A.Saiyathu Ali &amp; Mr.M. Arsath Farvesh,</b> “Design and Implementation of An Online Crime Reporting System: A Web Based Application” published in the UGC Care Journal ‘Education and Society’, Vol-47 Issue-2, May 2023, No.6S, ISSN: 2278 – 6864.</p> <p><b>34. Ms.M.Rajathi, S.Manivasagam, M.Harish Raghavan, M.Veeraselvan</b> “MACHINE LEARNING APPROACHES FOR BITCOIN PRICE PREDICTION” published in the UGC Care Journal ‘Education and Society’, Vol-47 Issue-2, May 2023, No.6S, ISSN: 2278 – 6864</p>
Funded Projects :		Nil
Patents		Title of the invention: A MODEL TO PREDICT VITAL SIGN USING MACHINE LEARNING Application No.202241019884 A, Date of filing of Application :01/04/2022, Publication Date: 22/04/2022
Awards and Achievements	:	National level Award “Aasiriya Arima Award 2020”- Kurinji Kabilar Tamil Sangam, Pilikkal palayam, Namakkal on 26.01.2020
Google Scholar Link	:	<a href="https://scholar.google.com/citations?user=Ro42wuEAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=Ro42wuEAAAAJ&amp;hl=en</a>
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