

BOOKS PUBLISHED

- Book Published “Internet of Things: A Beginners Approach”, Publisher: LAP Lambert Academic Publishing , ISBN: 978-620-7-99883-8, 2024.
<https://www.amazon.in/Internet-Things-Beginners-Mrs-Dhavapriya/dp/6207998839>
- Book Published “Foundations of Data Communication and Computer Networks”, Publisher: LAP Lambert Academic Publishing , ISBN: 978-620-9-05035-0, 2025 , Dodo Books Indian Ocean Ltd. and OmniScriptum S.R.L publishing group.
<https://ngmclibrary.in/repository-collections/entry/2094/>
https://www.amazon.in/Foundations-Data-Communication-Computer-Networks/dp/6209050352/ref=sr_1_1?dib=eyJ2IjoiMSJ9.lxLZpK7YNTdXk7mCv1lH4G6rcC0coUWbQw3O-c3ClrZbvK-xqwazK-bei1_oUa-V2kMxC89ECbcxV4EjdrpZsdhVKyoqH7l8BQGuFTH4taXdIY6ENDVmIqXwWdcARtu2jHeXFs_XIXln8obrONbtAFziKITjiygKKOVgv2cQIi0ZU8Q81foKRweyi0X4EhtucwGSK8zZnD0CAaAYhaoARXfPWBBOmVoyqVJY8J2m394.e4EgFg2o3s57868O7O_w6yC6mhjKJZ8RS7ZzFXgz3z0&dib_tag=se&keywords=Foundations+of+Data+Communication+and+Computer+Networks&qid=1764845692&sr=8-1
<https://www.amazon.in/Foundations-Data-Communication-Computer-Networks/dp/6209050352>
- Book Published “Computer Networking Fundamentals”, Publisher : LAP Lambert Academic Publishing, Publication date : 15 September 2025, Language : English, Print length : 76 pages
ISBN-10 : 620902825X, ISBN-13 : 978-6209028250
https://www.amazon.co.za/Computer-Networking-Fundamentals-Dr-Nandhakumar/dp/620902825X/ref=sr_1_9?crid=2ZW164XTQRR0&dib=eyJ2IjoiMSJ9.k6Y7SIT7OoCRPznFULldB_snbzxzSqJqgxBuW-2yjEv8GYbA5KeyjXKg5TLNo_0EFJD4pGTtqOtXBRzKNR_n-SVBY38wGR7UCOGqOFBDx0fJPkcGAZyxWz0ipIxYK3VIyiKzykBGb5opB-ZZ8OwzEw.fSS-G1nC6SUQmAbQzbs6_wamtQ5csEzl48h9I8HzEK0&dib_tag=se&keywords=R%2CNA NDHAKUMAR&qid=1771233157&s=books&sprefix=r+nandhakumar%2Cstripbooks%2C436&sr=1-9

- Book Published “Fundamentals of Computer Networks”, Publisher: LAP Lambert Academic Publishing , ISBN:978-620-9-53685-4, Editor: ktulloo, 2026, Dodo Books Indian Ocean Ltd. and OmniScriptum S.R.L publishing group. <https://my.lap-publishing.com/extern/listprojects>

JOURNAL PUBLICATIONS

1. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2017), “A Survey on E-Health Care for Diabetes Using Cloud Framework”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) , ISSN: 2394-3777(Print), Vol. 4, No. 10, pp. 15-20, Impact Factor:4.753. https://www.academia.edu/35056397/A_Survey_on_E-Health_Care_for_Diabetes_Using_Cloud_Framework
2. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2018), “A Survey on Data Classification in Data Mining”, Indo-Iranian Journal of Scientific Research (IIJSR), ISSN: 2581-4362., Vol. 2, No. 3, pp. 343-352. <https://iijsr.com/data/uploads/33324.pdf>
(or) https://scholar.google.co.in/scholar?hl=en&as_sdt=0%2C5&as_vis=1&q=A+Survey+on+Data+Classification+in+Data+Mining+nandhakumar&btnG=
3. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “A Study on Big Data Hadoop and its Database Tools”, Journal of Analysis and Computation (JAC), (An International Peer Reviewed Journal), www.ijaonline.Com, ISSN 0973-2861. <https://www.scribd.com/document/780577112/A-STUDY-ON-BIG-DATA-HADOOP-nandha-kumar>
(or) <http://www.ijaonline.com/study-big-data-hadoop-database-tools/>
4. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Cluster Analysis on High- Dimensional Non-Linear Data: Density-Based Clustering Algorithms”, Journal of Information and Computational Science- ISSN: 1548-7741, Vol. 9, No. 7, pp. 310- 322, UGC CARE Approved, Group-A Journal, Impact Factor: 6.2. <http://www.joics.org/gallery/ics-1194.pdf> (or) https://ngmc.org/cdn/uploads/iqac/C3/3_4_3/Ph_D-4th-CLUSTER-ANALYSIS-ON-

[HIGH-DIMENSIONAL-NON-LINEAR-DATA-DENSITY-BASED-CLUSTERING-ALGORITHMS.pdf](#)

5. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Clustering Based Algorithm On Density Distribution Function”, International Journal of Information and Computing Science (IJICS) Vol. 6, No. 6, pp. 659-665, UGC Journal, ISSN: 0972-1347. <http://ijics.com/gallery/88-june-1385.pdf>
6. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Density Based Clustering Algorithms in High Dimensional Non-Linear Data Set”, Cikitusi Journal for Multidisciplinary Research, Vol. 6, No. 6, pp. 666-669, UGC Journal - Scopus Suggested Journal Id: 45M2HG58E5374l58, ISSN: 0975-6876 (Online), Impact Factor: 6.1. <http://www.cikitusi.com/gallery/78-june-945.pdf> (or) https://scholar.google.co.in/scholar?q=Density+Based+Clustering+Algorithms+in+High+Dimensional+Non-Linear+Data+Set&hl=en&as_sdt=0&as_vis=1&oi=scholar
7. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “DBSCAN: Fast Density-Based Clustering”, Compliance Engineering Journal- UGC CARE Approved ,Group-A, ISSN NO: 0898-3577, Vol. 10, No. 7, pp. 89-102, Impact Factor: 6.2. <https://ijceng.com/index.php/volume-10-issue-8-2019/>
8. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Meta-Heuristic Method for Optimization in High Dimensional Non-Linear Data Using DNA Microarray”, The International Journal of Analytical and Experimental Modal Analysis, ISSN NO: 0886-9367, Vol. XI, No. VIII, pp. 520-530, Impact Factor: 6.3. <https://app.box.com/s/5eqph7ie6nogr6gertmcd7gyrhgzpxun>
9. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “DNA Microarray Data Reduction Method for Dimensionality Problems”, International Journal of Contemporary Research in Computer Science and Technology (IJCRCST), e-ISSN: 2395-5325, Vol. 5, No. 2, pp. 34-39. https://www.ijrcrst.co.in/papers/IJRCRST-APRIL19-08.pdf?_gl=1*17411l9*_ga*Mjc3MTc3OTk4LjE3NDAxMTYxODg.*_ga_TRB88YVEK8*MTc0MDExNjE4OC4xLjEuMTc0MDExNjQwNC4wLjAuMA..
10. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Curse of Dimensionality A High Dimensional Non-Linear Methods for Reduction in Microarray Data”, Suraj Punj

Journal for Multidisciplinary Research-UGC Approved Journal, ISSN NO: 2394-2886, Vol. 9, No. 6, pp. 1021-1031, Impact Factor: 6.1.

11. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “An Efficient Approach of Clustering High Dimensional Non-Linear Data with Noise”, Universal Review Journal-UGC Approved, ISSN NO : 2277-2723, Vol. 8, No: 6, pp:989-995, Impact Factor: 5.7. <https://ir.ngmcollege.in/items/show/1981#?c=&m=&s=&cv=>
12. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “M-DENCLUE Detection in High Dimensional Non-linear Data in Clustering Techniques”, Journal of Interdisciplinary Cycle Research, ISSN NO : 0022-1945, Vol. 11, No. 9, pp. 569-578, UGC Approved-Serial No.:21259, Impact Factor:6.2. <http://www.jicrjournal.com/gallery/71-september-2019.pdf>(or) <http://www.jicrjournal.com/index.php/volume-11-issue-9-september-2019/>
13. **Nandhakumar, R.** and (2019), “Clustering High Dimensional Non-Linear Data with DENCLUE, OPTICS and CLIQUE Algorithms”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Vol. 8, No. 3, pp: 8848-8852, UGC CARELIST Approved, Group A, Elsevier and Scopus Indexed Journal-Serial No.:206, Impact Factor: 5.92. <https://www.ijrte.org/wp-content/uploads/papers/v8i3/C6671098319.pdf>
14. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “OPTICS A Density-Based Algorithm for Discovering Cluster in Large Databases with Noise”, Asian Journal of Applied Science and Technology (AJAST), (Quarterly International Journal), Online ISSN: 2456-883X, Vol. 3, No. 4, pp. 46-56. <http://ajast.net/data/uploads/11107.pdf>
15. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019), “Towards Framing an Integrated Model for Optimization and Clustering (IMOC) High-Dimensional Non-Linear DNA Data Processing using ACO and DENCLUE”, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Vol. 9, No. 1, pp. 603-608, UGC CARELIST Approved, Group A Scopus Indexed Journal, Impact Factor: 5.97. <https://www.ijeat.org/wp-content/uploads/papers/v9i1/A9753109119.pdf>
16. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019) “A Clustering Technique for Reducing Noise in High Dimensional Non-Linear Data using M-DENCLUE

Algorithm”, International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), ISSN(ONLINE) : 2278 – 3091, Vol. 8, No. 5, Scopus Indexed journal, Impact Factor: 3.980. <http://paper.researchbib.com/view/paper/228864>

17. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2019) “M-DENCLUE for Effective Data Clustering in High Dimensional Non-linear Data”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, UGC CARELIST Approved, Group A, Elsevier and **Scopus Indexed Journal-Serial No.:194,Impact Factor: 5.15.** <https://www.ijitee.org/wp-content/uploads/papers/v9i1/A9109119119.pdf>
18. **Nandhakumar, R.** and Antony Selvadoss Thanamani (2020) “High Dimensional Non Linear Data Using Modified Denclue Algorithm”, Tathapi (UGC Care Journal),ISSN: 2320-0693,Vol-19-Issue-19-May-2020. <https://sciencejournal.re/index.php/studies-in-science-of-science/article/view/493>
19. Dr.**Nandhakumar, R.** (2020) “Modified Density-Based Clustering For Effective Data Clustering in Hdnl Data” *Tathapi* (UGC Care Journal), ISSN:2320-0693 Vol-19-Issue-32-June-2020. https://scholars.edupub.org/2020/06/drrnandhakumar_92.html
20. Dr.**Nandhakumar, R.** (2020) “Novel Temporal Sequence Pattern Based Human Activity Prediction using DVSM Approach”, Journal of The Maharaja Sayajirao University of Baroda. ISSN: 0025-0422. Vol 54 No. 2(IIX) 2020-2021. (UGC CARE Group I Journal)(Proceedings). <https://ir.ngmclibrary.in/items/show/3466>
21. Dr.**Nandhakumar, R.** (2020) “Novel Multistage Content Based Image Retrieval Approach using Curvelet Laplicient Filter”, Journal of Critical Reviews. ISSN: 2394-5125. Vol 7, Issue 06, 2020. <https://jcreview.com/archives/volume-7/issue-6/8107>
22. Dr.**Nandhakumar, R.** (2020) “M-Denclue for Effective Data Clustering in High Dimensional Non-Linear Data”, International Journal of Future Generation Communication and Networking Vol 13, No .4 (2020) pp ,ISSN: 1263-1267 **(Web of Science)**. <http://serisc.org/journals/index.php/IJFGCN/article/view/32560/17994> (or) <https://www.ijitee.org/wp-content/uploads/papers/v9i1/A9109119119.pdf>
23. **Nandhakumar, R.** (2020) “Agricultural Soil Analysis using Data Mining Techniques” International Journal of Information Security and Software Engineering, Volume 6,Issue 2,2020. (UGC CARE).

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24. Dr.**Nandhakumar, R.**(2022) , in recognition of the publication of the paper entitled “IoT - Based Air Quality Monitoring System” Published In IJCSPUB- International Journal of Current Science (www.ijcspub.org) & 8.17 Impact Factor by Google Scholar Volume 12 Issue 2 May 2022, Date of Publication: 29-May-2022 .
<https://rjpn.org/ijcspub/papers/IJCSP22B1177.pdf>
25. **Nandhakumar, R.**(2022), in recognition of the publication of the paper entitled “Efficient Clustering of high dimensional nonlinear data using modified Denclue algorithm” Published in Studies in Science of Science , ISSN: 1003-2053, Volume 40, Issue 6, 2022, Page no. 09-19. <https://sciencejournal.re/index.php/studies-in-science-of-science/article/view/493>
26. **Nandhakumar, R.**(2023), in recognition of the publication of the paper entitled “Efficient Clustering of high dimensional nonlinear data using modified Denclue algorithm”, published in Journal of Systems Engineering and Electronics ,ISSN NO: 1671-1793, Volume 33 ,ISSUE 8 2023,Page No.:71-81. <https://jseepublisher.com/wp-content/uploads/2024/01/5-2.pdf>
27. Dr.**Nandhakumar, R.**(2023) , in recognition of the publication of the paper entitled “An IoT based condition monitoring system of biogas electrical generator for performance evaluation” published in Journal of the Maharaja Sayajirao University of Baroda ISSN :0025-0422 ,Volume-57, No.1(II) : 2023, (Page No. 81-87).
<https://ir.ngmclibrary.in/items/show/3453>
28. Dr.**Nandhakumar, R.**(2023) , in recognition of the publication of the paper entitled “Illuminating Brain Tumor in MRI Metaphors by Using a Hybrid Model of Faster R-CNN and CNN” Published in UGC Care List, Journal of the Maharaja Sayajirao University of Baroda, ISSN No.: 0025-0422 Volume-57, No.1 (V): 2023, Page No. 191 - 198. <https://ir.ngmclibrary.in/items/show/3455> (or)
[https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_3/3_4_3-illuminating-brain-tumor-A_Muruganandham.R_Nandhakumar-cs\(sf\).pdf](https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_3/3_4_3-illuminating-brain-tumor-A_Muruganandham.R_Nandhakumar-cs(sf).pdf)

29. Dr.**Nandhakumar, R.**(2023) , in recognition of the publication of the paper entitled “Illuminating Brain Tumor in MRI Metaphors by using SVM Classifier” published in Journal of the Maharaja Sayajirao University of Baroda ISSN :0025-0422 ,Volume-57, No.1(V) : 2023 (Page No. 67-74).(Proceeding) <https://ir.ngmclibrary.in/items/show/3472> (or) https://ngmc.org/cdn/uploads/iqac/C3/3_4_3/3_4_3-illuminating-using-svm-Classifier.pdf
30. Dr.**Nandhakumar, R.**(2023) , in recognition of the publication of the paper entitled “Illuminating Brain Tumor In MRI Metaphors by using a Hybrid Model of Faster R-CNN and SVM” published in Journal of the Maharaja Sayajirao University of Baroda ISSN :0025-0422 ,Volume-57, No.1(V) : 2023 (Page No. 177-183). <https://ir.ngmclibrary.in/items/show/3464> (or) [https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_3/3_4_3-illuminating-brain-tumor-A_Muruganandham.R_Nandhakumar-cs\(sf\).pdf](https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_3/3_4_3-illuminating-brain-tumor-A_Muruganandham.R_Nandhakumar-cs(sf).pdf)
31. Dr.**Nandhakumar, R. (2024)** , in recognition of the publication of the paper entitled “Brain Tumor Detection in MRI Metaphors by using Hybrid Model of Quantum Variational Classifier and Ensemble Transfer Learning” Published in UGC-Care Approved Journal, Adalya and ISSN No.: 1301-2746, Volume 13, Issue 3, March 2024, Page No. 27 -36. <https://adalyajournal.com/index.php/volume-13-issue-3-march-2024/> (or) <https://drive.google.com/file/d/1UYbignZ7QDSAI-AbM0vF-y2N0vDWdRaA/view?pli=1>
32. Dr.**Nandhakumar, R. (2024)** , in recognition of the publication of the paper entitled “Analysing The Effectiveness of SEL Competencies On Enhancing Academic Outcomes Among College Students” , Journal of Nonlinear Analysis and Optimization, Vol. 15, Issue. 2, No.2: 2024, ISSN: 1906-9685. Page No.: 98-105 <https://jnao-nu.com/Vol.%2015,%20Issue.%2002,%20July-December%20:%202024/12.2.pdf>
33. Dr.**Nandhakumar, R. (2024)** , in recognition of the publication of the paper entitled “The Nexus of Cognitive and Emotional Intelligence: A Study on Student Learning Outcomes for Academic Excellence”, International Journal of Computer Communication and Informatics, Vol. 6, Issue. 2, 2024, ISSN: ,Page No.:19-33.

<https://sietjournals.com/index.php/ijcci/article/view/282/199>

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34. Dr.**Nandhakumar, R. (2024)**, in recognition of the publication of the paper entitled “Exploring the Synergy of Cognitive and Emotional Intelligence in Enhancing Student Learning” , Journal of Computational Analysis and Applications (**Scopus Journal**), VOL. 33, NO. 8, 2024, Page No.: 5072-5077.
<https://www.eudoxuspress.com/index.php/pub/article/view/3079>
35. Dr.**Nandhakumar, R. (2025)**, in recognition of the publication of the paper entitled “The Role of Emotional Intelligence in Enhancing Professional and Personal Success Bridging Competence and Compassion”, Journal of the Maharaja Sayajirao University of Baroda, ISSN :0025-0422, Volume-59, No.4 : 2025, Page No.: 1-5. (UGC Care Group I Journal).
<https://ir.ngmclibrary.in/items/show/4000>
36. Dr.**Nandhakumar, R. (2025)**, in recognition of the publication of the paper entitled “Exploring the Synergy of Cognitive and Emotional Intelligence in Enhancing Student Learning”, Journal of the Maharaja Sayajirao University of Baroda, ISSN :0025-0422, Volume-59, No.4 : 2025, Page No.: 23-29. (UGC Care Group I Journal).
<https://ir.ngmclibrary.in/items/show/3999>
37. Dr.**Nandhakumar, R. (2025)**, in recognition of the publication of the paper entitled “Defect detection in transforming textile mills with Machine Learning and CNN Method: Applications and Innovations for Eco-Conscious future” in 2025 Global Conference in Emerging Technology (GINOTECH) and **IEEE Xplore** during 9.5.2025-11.5.2025, ISBN:979-8-3315-0775-6,Page. No.:61 <https://ieeexplore.ieee.org/document/11076648>
38. Dr.**Nandhakumar, R. (2025)**, in recognition of the publication of the paper entitled “Analyzing the Effect of Emotional Intelligence Among College Students on Academic Achievements using Xgboost Algorithm” Journal of the Maharaja Sayajirao University of Baroda ,ISSN :0025-0422, Volume-59, No.4 : 2025,Page No.: 125-133.
<https://ngmclibrary.in/wp-content/uploads/2025/09/Ph.D-38th-ANALYZING-THE-EFFECT-OF-EMOTIONAL-INTELLIGENCE-AMONG-COLLEGE-STUDENTS-ON-ACADEMIC-ACHIEVEMENTS-USING-XGBOOST-ALGORITHM.pdf?gv-iframe=true>
39. Dr.**Nandhakumar, R. (2025)**, in recognition of the publication of the paper entitled “Intelligent Optimization Of Multicropping Strategies Across Irrigation Types Using

Genetic Algorithms, Deep Learning, And Particle Swarm Optimization”, Journal of the Maharaja Sayajirao University of Baroda, ISSN :0025-0422,Page No.:59-70, Volume-59, No.5 : 2025. <https://ngmclibrary.in/repository-collections/entry/2206/>

40. Dr.Nandhakumar, R. (2026), in recognition of the publication of the paper entitled “Neuro-Evo Swarm Optimizer (NESO): A Hybrid Framework Combining Deep Learning, Genetic Algorithms, and Particle Swarm Optimization for Multi cropping Optimization” International Journal of interdisciplinary and multidisciplinary research, ISSN 2456-4567 (O), Page No.: 137-143, Volume Number : 11,02 March 2026. <https://ngmclibrary.in/repository-collections/entry/2386/>
41. Dr.Nandhakumar, R. (2026), has published article titled “**Neuro-Evo Swarm Optimizer: A hybrid deep learning, genetic algorithm and particle swarm optimization model for multi cropping strategy optimization across irrigation systems**”, International Journal of Multidisciplinary Research and Development, Volume:13, Issue:1,Year:2026,Page Number:551-556, Reference No:13143,Published Date:18-3-2026, Impact Factor.:RJIF-8, ISSN Online: 2349-4182, ISSN Print: 2349-5979. <https://ngmclibrary.in/repository-collections/entry/2420/>
42. Dr.Nandhakumar, R. (2026), has published article titled “**A Hybrid Intelligent Optimization Framework for Multicropping Systems Using Genetic Algorithm, Deep Learning, and Particle Swarm Optimization**”, International Journal of Research in IT and Management (IJRIM), Vol. 16 Issue 05, May- 2026 ISSN(o): 2231-4334 | ISSN(p): 2349-6517 , Impact Factor: 8.106, Page No.: 21-23. (An open access scholarly, peer-reviewed, interdisciplinary, monthly, and fully refereed journal.) <https://ngmclibrary.in/repository-collections/entry/2602/>
43. Dr.Nandhakumar, R. (2026), has published article titled “Intelligent Optimization of Multicropping Strategies Across Irrigation Systems using Genetic Algorithm, Deep Learning, and Particle Swarm Optimization”, Advanced Engineering Sciences, ISSN: 2096-3246, Volume 58, Issue 02, 2026, Page No.: 688-706, 21.06.2026. (Scopus) <https://advancedengineeringscience.com/index.php/aes/article/view/346> (or) <https://ngmclibrary.in/repository-collections/entry/2636/>

CONFERENCE- PAPER PRESENTATION

1. Presented a paper in National Seminar paper entitled” Machine Learning” Vidhyasagar College of Arts and Science, Udumalpet, 20.02.2010.
2. Presented a paper in National Level Seminar paper entitled” Data Mining And Data Warehousing” Sree Saraswathi Thyagaraja College, Pollachi 25.02.2010 and 26.02.2010.
3. Presented a paper in an National Conference paper entitled “Data Mining” RVS College of Arts And Science, Sulur 07.10.2010.
4. Presented a paper in an National Seminar paper entitled “Data Mining Enhanced Neural Network” Sree Ramu College of Arts And Science, Pollachi 13.01.2012.
5. Presented a paper in a National Conference paper entitled “Detection of Event Splitting and Merging Using Bi-directional Routing Abstraction” Sree Saraswathi Thyagaraja College, Pollachi 03.12.2013and04.12.2013 (Proceedings).
6. Presented a paper in a National Conference paper entitled “Kernel Fuzzy and Kernel Induced Possibilistic C- mean Clustering” VLB Janakiammal College of Arts and Science, Coimbatore 20.03.2015.
7. Presented a paper in a National Conference paper entitled “A Web Mining Approach for Personalized E – Learning System” Park’s College, Tirupur 05.03.2016.
8. Presented a paper in a National Conference paper entitled “Wireless Sensor Networks” SNMV College of Arts and Science, Coimbatore 10.02.2016.
9. Presented a paper in a National Conference paper entitled “Routing Techniques in Wireless Sensor Network” Vidhyasagar College of Arts and Science, Udumalpet 22.02.2016(Proceedings).
10. Presented a paper in an National Conference paper entitled “Innovative Trends In Information Technology” at Park’s College, Tirupur on 05.03.2016.

11. Presented a paper in a National Conference paper entitled “Personalized E-Learning System for Web Mining Approached” Karpagam University, Coimbatore 17.02.2017(Proceedings).
12. Presented a paper in an National Conference paper entitled “Impact On Steganography Techniques” VLB Janakiammal College of Arts and Science, Coimbatore 23.02.2017.
13. Presented a paper in an National Conference paper entitled “Prevention Of Data Using SQL Injection Techniques” Dr. N.G.P. Arts and Science College, Coimbatore 24.02.2017.
14. Presented a paper in an National Level Seminar paper entitled “A Survey On Biomedical Applications For Remote Health Monitoring Using Cloud Framework” Bharathiar University Arts and Science College, Valparai 03.03.2017.
15. Presented a paper in a National Conference paper entitled “Design Of E-Learning Applications through Web Mining” NGM College, Pollachi 22.09.2017(Proceedings).
16. Presented a paper in an National Conference paper entitled “Secure Access For Healthcare Data In Cloud Using Cipher text Policy” Karpagam University, Coimbatore 22.09.2017(Proceedings).
17. Presented a paper in an International Conference paper entitled “A Patient – Centric Attribute Based Access Control Scheme For Secure Sharing Of Personal Health Records Using Cloud Computing” Rathinam College of Arts and Science, Coimbatore 23.09.2017.
18. Presented a paper in an International Conference paper entitled “A Survey on the Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad Hoc Networks” Guru Shree Shantivijai Jain College for Women, Chennai 06.01.2018(Proceedings).
19. Presented a paper in a National Conference paper entitled “Analysis and Prediction of Intrusion Detection Using Data Mining Class Tech” St. Joseph’s College for Women, Tirupur 16.02.2018(Proceedings).
20. Presented a paper in an National Conference paper entitled “Energy Efficient Aodu Routing For WSN Scenarios” at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on 16.03.2018.

21. Presented a paper in a National Conference paper entitled “Cryptographic Algorithms and Network Security on Cloud” Karpagam Academy of Higher Education 28.09.2018(Proceedings).
22. Presented a paper in an National Conference paper entitled “Machine Learning (Networks Intelligence and Computing Systems)” SNS College of Technology 07.03.2019.
23. Presented a paper in an National Conference paper entitled “A Study on Big Data Hadoop and its Database Tools (Research Challenges in Intelligent Systems of Computer Systems (NC – RCISCS – 2019)” Park’s College, Tirupur 15.03.2019.
24. Presented a paper “Clustering with DBSCAN and optics for Reachability plot” in National conference on Recent Trends and Advances in the field of Information Technology organized by Department of Computer Science, Applications & Information Technology, Karpagam Academy of Higher Education, Coimbatore on 27.09.2019(Proceedings).
25. Presented a paper in a National Level Conference paper entitled “High Dimensional Non-Linear Data in Clustering through Modified DENCLUE Algorithm” Pioneer Kumaraswamy College, Nagarcoil on 07.01.2020.
26. Presented a paper in a National Conference paper entitled “Analysis and Transformation of Unstructured and Semi structured data into Structured data” SNMV College of Arts and Science, Coimbatore 29.01.2020.
27. Presented a paper in a National Conference on “Emerging Technologies – Robotics and IoT” (NCET ’20) on topic “Smart Home Hawk Android Automation System” at Karpagam University on 28.02.2020.
28. Presented a paper in a International Conference paper entitled “A Diversified Methodology for Weather Prediction to Evaluate Time Series Big Data” in the one day International Conference on "Emerging Trends in Science and Technology (ETIST-2021) Jointly Organized by Department of Biological Science, Physical Science and MMM U 6OUM UNDER MA Computational Science on 27.10.2021(Certificate No NGMETIST2021438).
29. Presented a paper in a International Conference paper entitled “Personalized E-Learning System on Web Mining Approach” in the one day International Conference on "Emerging Trends in Science and Technology (ETIST-2021) Jointly Organized by

Department of Biological Science, Physical Science and MMM U 6OUM UNDER MA Computational Science on 27.10.2021(Certificate No NGMETIST2021543).

30. Presented a paper in a International Conference paper entitled “Agricultural Soil Analysis using Data Mining Techniques” in the one day International Conference on "Emerging Trends in Science and Technology (ETIST-2021) Jointly Organized by Department of Biological Science, Physical Science and MMM U 6OUM UNDER MA Computational Science on 27.10.2021(Certificate No NGMETIST2021542).
31. Presented a paper in a International Conference paper entitled “Effective Data Clustering in High Dimensional Non-Linear Data” ” in the one day International Conference on "Emerging Trends In Science and Technology (ETIST-2021) Jointly Organized by Department of Biological Science, Physical Science and MMM U 6OUM UNDER MA Computational Science on 27.10.2021(Certificate No NGMETIST2021541).
32. Presented a paper in a International Conference paper entitled “Denclue Algorithm for Clustering High Dimensional Non-Linear Data” in the one day International Conference on "EMERGING TRENDS IN SCIENCE AND TECHNOLOGY (ETIST-2021) Jointly Organized by Department of Biological Science, Physical Science and MMM U 6OUM UNDER MA Computational Science on 27.10.2021(Certificate No NGMETIST2021479).
33. Presented a paper titled “**Wireless Network in Information And Communication Technology**” in the One Day National Seminar on Implementation of ICT Skills for the Students for their Employment in Skill Based Jobs Sponsored by Indian Council of Social Science Research (ICSSR)- New Delhi organized by the Department of Commerce (E-Commerce), Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu on 19.10.2022. (Proceeding Copy) .
https://books.google.co.in/books?hl=en&lr=&id=TU2uEAAQBAJ&oi=fnd&pg=PA263&dq=Dr.R.NANDHAKUMAR,+NALLAMUTHU+GOUNDER+MAHALINGAM+COLLEGE&ots=JnK95gixku&sig=WtaAVml91CWS3ox7A9rOLFcZfk&redir_esc=y#v=onepage&q=Dr.R.NANDHAKUMAR%2C%20NALLAMUTHU%20GOUNDER%20MAHALINGAM%20COLLEGE&f=false
34. Presented a paper titled “EVIDENCE AND CHALLENGES OF NEW NATIONAL EDUCATION POLICY IN INDIA ” at the NAAC Sponsored Two Days National

SEMINAR on “Innovative Strategies & Practices in Teaching, Learning and Evaluation Process for Arts & Science Colleges towards NEP-2022 on 03.11.2022 & 04.11.2022.
[https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_4/2021-2022/M_Com\(IB\)/29.pdf](https://www.ngmc.org/cdn/uploads/iqac/C3/3_4_4/2021-2022/M_Com(IB)/29.pdf)

35. Presented a paper titled “DENSITY BASED CLUSTERING ALGORITHM FOR CLUSTERING HIGH DIMENSIONAL NON-LINEAR DATA ” at the International Conference on Recent Trends in Computer Science, Engineering and Information Technology 2022 held on 25.11.2022, organized by the Department of Computer Science, Rathinam College of Arts and Science (Autonomous), Coimbatore 641021. **(Proceeding Copy)**
36. Presented a paper titled “SEGMENTATION TECHNIQUES REVIEW IN IMAGE PROCESSING ” the International Conference on Recent Trends in Computer Science, Engineering and Information Technology 2022 held on 25.11.2022, organized by the Department of Computer Science, Rathinam College of Arts and Science (Autonomous), Coimbatore 641021. **(Proceeding Copy)**
37. Presented a paper titled “**Remote Learning Initiatives Undertaken Across India: An Outlook**” ICSSR sponsored Two Day National Seminar on "Impact of Digital Learning in Education Sector- A Pandemic Perspective" organized by the Department of Commerce, Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu on 08.02.2023 and 09.02.2023, Volume: I ISBN: 978-93-94004-09-2. **(Proceeding Copy)**
https://www.researchgate.net/profile/Prabu-Vengatesh-T/publication/371856219_IMPACT_OF_DIGITAL_LEARNING_IN_EDUCATION_SECTOR_A_PANDEMIC_PERSPECTIVE/links/64991ff5b9ed6874a5db63c4/IMPACT-OF-DIGITAL-LEARNING-IN-EDUCATION-SECTOR-A-PANDEMIC-PERSPECTIVE.pdf
38. Presented a paper entitled “ILLUMINATING BRAIN TUMOR IN MRI METAPHORS BY USING SVM CLASSIFIER” in the International Conference on “Smart Innovative Technologies on Data Analytics” (ICSITDA ‘23) organized by Department of Computer Applications on 26.05.2023.
39. Presented a paper entitled "A New Approach on E-Learning System using Web Mining Approach" in ICSSR Sponsored One day National Seminar on Perspective of ICT Tools in Education on 04.08.2023.
https://www.researchgate.net/profile/Sjayalakshmi/publication/378130057_WOMEN'S_EMPOW

[ERMENT IN INDIA ISSUES AND CHALLENGES/links/65c8b3211e1ec12eff81a681/WOMENS-EMPOWERMENT-IN-INDIA-ISSUES-AND-CHALLENGES.pdf#page=297](https://www.researchgate.net/profile/Sjayalakshmi/publication/378130057_WOMEN'S_EMPOWERMENT_IN_INDIA_ISSUES_AND_CHALLENGES/links/65c8b3211e1ec12eff81a681/WOMENS-EMPOWERMENT-IN-INDIA-ISSUES-AND-CHALLENGES.pdf#page=297)

40. Presented a paper entitled "**ICT Apparatuses for Creativity in Teaching Learning Process**" in ICSSR Sponsored One day National Seminar on Perspective of ICT Tools in Education on 04.08.2023.
[https://www.researchgate.net/profile/Sjayalakshmi/publication/378130057 WOMEN'S EMPOWERMENT IN INDIA ISSUES AND CHALLENGES/links/65c8b3211e1ec12eff81a681/WOMENS-EMPOWERMENT-IN-INDIA-ISSUES-AND-CHALLENGES.pdf#page=297](https://www.researchgate.net/profile/Sjayalakshmi/publication/378130057_WOMEN'S_EMPOWERMENT_IN_INDIA_ISSUES_AND_CHALLENGES/links/65c8b3211e1ec12eff81a681/WOMENS-EMPOWERMENT-IN-INDIA-ISSUES-AND-CHALLENGES.pdf#page=297)
41. Presented a paper entitled "**Transforming Agriculture through the IoT: A comprehensive study on IoT in Indian Agriculture**" in the Two Days National Conference on "Deep Learning & Computer Interaction for Sustainability- DLCIS'24" on 10.01.2024 and 11.01.2024 organized by UG Department of Computer Applications, NGM College.
42. Presented a paper entitled "Brain Tumor Detection based on ML algorithms using MRI Image" in the Two Days National Conference on "Deep Learning & Computer Interaction for Sustainability- DLCIS'24" on 10.01.2024 and 11.01.2024 organized by UG Department of Computer Applications, NGM College.
43. Presented a paper entitled "Brain Tumor Mri Image Segmentation and Detection in Image Processing Algorithms" in the Second National Conference on Sustainable Computing and Development (NCSCD) – 2024 supported by PSGCARE on 02-02-2024, ISBN NO: 978-93-95105-59-0, PAPER ID : NCSCD24035, Page No. 33.
<https://ir.ngmclibrary.in/items/show/3765>
44. Presented a paper entitled "Brain Tumor Detection In MRI Metaphors By Using a faster RCNN and Yolov8" at the International Conference on Computational Intelligence (ICCI) organized by the Department of Computer Science (UG), Kristu Jayanti College (Autonomous), Bengaluru in collaboration with Lincoln University College, Malaysia and Karnataka State Council for Science and Technology on 26.02.2024 & 27.02. 2024.
45. Presented a paper entitled "Wearable Based IoT System For Elderly Fall Detection and Prevention" in the National Conference on Advanced Computational Intelligence & Disruptive Technologies , ISBN :9 7 8 - 8 1 - 9 7 0 8 9 3 - 6 - 7 on 06.03.2024 organized by UG Department of Computer Science with Data Analytics, PSG College of Arts and Science, Coimbatore.
(Proceedings)

46. Presented a paper entitled “Digital Transformation: Smart Home Have Android Automation System” in the Indian Council of Social Science Research (ICSSR) - Southern Regional Centre, Hyderabad sponsored One Day National Seminar on "Empowering India through Digital Transformation: A Sustainable Approach", ISBN : 978-93-340-6921-1,Page No.:370-376, organized by the Department of Commerce (E-Commerce), Nallamuthu Gounder Mahalingam College, Pollachi, Tamilnadu on 19.07.2024. **(Proceedings)**
<https://ir.ngmclibrary.in/items/show/3761>
47. Presented a paper entitled “Impact of Social-Emotional Learning Assessment on Educational Planning & Curriculum Development” in the International Conference DRISHTI-2024, ISBN: 978-93-340-9369-8,Page No.:81, held on 11.09.2024 at Vivekananda College of Engineering and Technology, Puttur.
<https://ir.ngmclibrary.in/items/show/3818>
48. Presented a paper entitled “Effective Data Clustering using HDNL data” in International Conference on “Recent trends in Multi-Disciplinary Research and Innovation” on 13.9.2024 organized by A.V.P. College of Arts and Science , Tirupur, ISBN:978-81-978963-5-4,Page No.: 281-285. **(Proceedings)**
<https://ir.ngmclibrary.in/items/show/3763>
49. Presented a paper entitled “The Nexus of Cognitive and Emotional Intelligence: A Study on Student Learning Outcomes” in the National Seminar On Artificial Intelligence (AI) Innovations for Advanced Biological Science and Research, Organized by Department of Computer Science with Cognitive Systems at Dr. N.G.P. Arts and Science College , sponsored by Government of India, ISBN: 978-81-980173-8-3 ,Page No.:67-76, 27.12.2024 **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3764>
50. Presented a paper entitled “The Effectiveness of Mindfulness Practices in Enhancing Student Focus and Resilience” in the Indian Council of Social Science Research- Southern Regional Centre (ICSSR-SRC) Sponsored One Day National Level Seminar on "Vision Viksit Bharat 2047: Contribution and Initiatives of Digital India for Empowering Rural Women" organized by the Department of Commerce-PA,Nallamuthu Gounder Mahalingam College on 31.01. 2025, ISBN: 978-93-94004-84-1, Page No.: 259-268. **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3534>

51. Presented a paper entitled “Exploring The Synergy of Cognitive and Emotional Intelligence in Enhancing Student Learning” in the International Conference on Recent Trends in Computer Science, Technology, Data Science, and Applications (ICRTCTDA-2025) , 07.02 2025, Vidyasagar College of Arts and Science, Udumalpet. (Proceeding No.: ICRTCTDA 2025- 1032, ISBN: 978-81-983678-7-7,Page No.: 24) **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3766>
52. Presented a paper entitled “Designing and Evaluating a User-Centric Wearable AI Device for Visually Impaired Individuals: A Participatory Approach” in the National Conference on AI & DS: Challenges and Opportunities in the Digital Era NCAI-DS 2025, organized by Department of Artificial Intelligence and Data Science/IT, VET Institute of Arts and Science College Maruthi Nagar, Thindal, Erode, Tamil Nadu 638012, India, ISBN - 978-93-6126-187-9,Page No.: 159-165 on 04.03.2025. **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3767>
53. Presented a paper entitled “The synergy of cognitive and emotional intelligence in enhancing student learning ” in the Indian Council of Social Science Research (ICSSR), New Delhi, Sponsored One Day National Seminar on "Artificial Intelligence in Logistics and Supply Chain Management Ethical Implications in Automation, Transparency and Sustainability”, Volume II, Organized by PG Department of Commerce with International Business, Nallamuthu Gounder Mahalingam College, Pollachi, Coimbatore District, Tamil Nadu , ISBN:978-93-94004-44-3,Page No.:204-213 on 7.3.2025. **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3158>
54. Presented a paper entitled “Blockchain and Consumer Data Privacy in Digital Marketing” at the One day International Conference on “Recent Trends in Research and Innovation” held on VLB Janakiammal College of Arts and Science, ISSN: 978-93-342-4607-0,Page NO.:01 on 14.03.2025. **(Proceedings)** <https://ir.ngmclibrary.in/items/show/3768>
55. Presented a paper entitled “Image Processing Design and Concepts of Cloud Computing”, at the International Conference on Mathematical and Computational Biology 3.0, organized by DBT Star College Departments, Hindusthan College of Arts

and Science, ISBN Number : 978-81-985207-8-4,Page No.:112 on 14.03.2025.

(Proceedings) <https://ir.ngmclibrary.in/items/show/3769>

56. Presented a paper entitled “Effects of Excessive Mobile use on Child Development: Technological Solutions for Mitigation” in the International Conference on Recent Trends in Computational Technologies and Sustainable Development Goals, Organized by Department of Computer Science (SF), PSG College of Arts & Science, ISBN: 978-81-986118-7-1,Page No.:37 on 25.03.2025. **(Proceedings)**
<https://ir.ngmclibrary.in/items/show/3159>
57. Presented a paper entitled “Defect detection in transforming textile mills with Machine Learning and CNN Method: Applications and Innovations for Eco-Conscious future” in 2025 Global Conference in Emerging Technology (GINOTECH) and IEEE Pune Section during 9.5.2025-11.5.2025. <https://ieeexplore.ieee.org/document/11076648>
58. Presented a paper entitled “Illuminating Brain tumor in MRI Metaphors by using Deep Learning and machine learning Approaches” in the National Conference on Engineering Evolution: AI&ML across Horizons” (NCEE2025) organized by Department of Electronics and Communication Engineering & Department of Electrical and Electronics Engineering, Sri Ramakrishna Institute of Technology on 19.06.2025 &20.06.2025. ISBN number:978-93-49773-62, Page No.:161-167.
<https://ir.ngmclibrary.in/items/show/3986>
59. Presented a paper entitled “Evaluating the Impact of Emotional Intelligence on Academic Performance among College Students using XGBoost” in the 2nd International Perspectives in New-Gen Computational Paradigms (ICRPNCP’ 25) organized by Department of Computer Science, Computer Applications and Computer Science with Data Analytics held at St.Joseph’s College for Women, Tirupur on 12.08.2025.
<https://ngmclibrary.in/repository-collections/entry/1915/>
60. Presented a paper entitled “Survey of Intelligent Optimization of Multicropping Strategies Across Irrigation Types Using Genetic Algorithms, Deep Learning, And Particle Swarm Optimization” in the 2nd International Perspectives in New-Gen Computational Paradigms (ICRPNCP’ 25) organized by Department of Computer

Science, Computer Applications and Computer Science with Data Analytics held at St.Joseph's College for Women, Tirupur on 13.08.2025, ISBN: 9-788199-007819, Page No.: 31-32. <https://ngmclibrary.in/repository-collections/entry/1914/>

61. Presented a paper entitled "Case Study Analysis: Integrating Particle Swarm Optimization with Deep Learning for Enhanced Agricultural Intelligence" in the 3rd International Conference 09.08.2025 Organized by Vivekananda College of Engineering & Technology, Karnataka Nehru Nagar, Puttur - 574 203, ISBN: 978-93-343-5348-8, Page No.: 243. [Repository Collections – NGM COLLEGE LIBRARY](#)
62. Presented a paper entitled "HARNESSING XGBOOST TO UNCOVER THE IMPACT OF EMOTIONAL INTELLIGENCE ON ACADEMIC RESULTS" RECENT TRENDS IN MULTI-DISCIPLINARY RESEARCH AND INNOVATION held at A.V.P College of Arts and Science, Tirupur on 19.09.2025 <https://ngmclibrary.in/repository-collections/entry/2355/>
63. Presented a paper entitled "DEEP LEARNING APPROACH FOR CROSS-CROP PLANT DISEASE DETECTION" Recent Trends In Multi-Disciplinary Research And Innovation held at A.V.P College of Arts and Science, Tirupur on 19.09.2025 <https://ngmclibrary.in/repository-collections/entry/2356/>
64. Presented a paper entitled "Exploring the Relationship between Emotional Intelligence and Academic Performance in College Students using XGBOOST" in the ICSSR-SRC Sponsored Harnessing Artificial Intelligence, Innovation and Technology: A Pathway to Economic Transformation And Sustainable Development In India organized by Department of Commerce IB at NGM College on 19.9.2025, Volume 1, ISBN: 978-93-94004-62-7, Page No.: 467-477, <https://ngmclibrary.in/repository-collections/entry/2144/>
65. Presented a paper entitled "Leveraging Cognitive and Emotional Intelligence to Enhance Educational Achievement" in Quantum Technologies and AI Applications: A New Era for the Life Sciences and Healthcare sponsored by DBT-CTEP, New Delhi organized by Department of Computer Science with Cognitive Systems at Dr.N.G.P. Arts and Science College, Coimbatore on 07.01.2026 and 08.01.2026, ISBN: 978-81-980173-1-4, Page No.: 40-50 <https://ngmclibrary.in/repository-collections/entry/2288/>

66. Presented a paper entitled “Integrating Cognitive and Emotional Intelligence for Improved Student Outcomes” in One day National Seminar on Bridging the Digital Divide: Digital Financial inclusion for Marginalized Communities in the Era of Amrit Kaal , Sponsored by ICSSR, organized by Department of Commerce(CA),NGM College, on 09.01.2026, ISBN No. : 978-93-94004-59-7 , Page No.:154-168
<https://ngmclibrary.in/repository-collections/entry/2316/>
<https://drive.google.com/drive/folders/1HynNDbU0NQz9v0srnxTZmSGG4lhgwaqp>
<https://ngmclibrary.in/digital-repository/integrating-cognitive-and-emotional-intelligence-for-improved-student-outcomes/>
67. Presented a paper entitled “Artificial Intelligence for Smart Cities and Sustainable Infrastructure” in Internationals Multidisciplinary Conference on AI-Driven Sustainability in Science & Technology, Management, and Humanities (IC-AISSTMH 2026) organized by the School of Computational Sciences, PSG College of Arts & Science (Autonomous), Coimbatore, scheduled on 13.02. 2026. ISBN No: 978-93-5692-757-5, Page No.:161-165. <https://ngmclibrary.in/repository-collections/entry/2458/>
68. Presented a paper entitled “Bridging Mind and Emotion: Enhancing Student Learning through Cognitive and Emotional Intelligence” in the International Conference organized by Vidyasagar College of Arts and Science , ISBN: 978-81-983678-2-2,Page No.:59 on 27.02.2026. <https://ngmclibrary.in/repository-collections/entry/2357/>
69. Presented a Paper Entitled “Cognitive Emotional Intelligence Synergy and Its Influence on Learning Effectiveness” In Prospects of Artificial Intelligence (AI) And Personalized Learning In Inclusive Education Integrated To The National Education Policy (NEP) - 2020 Organized by Department Of Commerce (CA) ,NGM College, Sponsored by Indian Council Of Social Science Research (ICSSR-SRC), ISBN: 978-93-94004-30-6, Volume II, Page No.: 1-5, 6.2.2026. <https://ngmclibrary.in/repository-collections/entry/2419/>
70. Presented a Paper Entitled “Blockchain-Based Tax Administration: Enhancing Transparency in GST Systems” organized by Department Of Commerce - Banking And Insurance, NGM College, Sponsored by Indian Council of Social Science Research

(ICSSR-SRC) ISBN: 978-93-94004-35-1 ,Volume 1, Page NO.: 89-92.

<https://ngmclibrary.in/repository-collections/entry/2529/>