



## Dr NANDHAKUMAR R

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## EDUCATION

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**M.Phil., 2010**

*Nallamuthu Gounder Mahalingam College*

**M.C.A., 2007**

*Nallamuthu Gounder Mahalingam College*

**SET 2017**

*Mother Teresa Womens University*

**M.B.A., 2008**

*Bharathiar University*

**Ph.D., 2020**

*Bharathiar University*

## PROFESSIONAL EXPERIENCE

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**Nallamuthu Gounder Mahalingam College** 2007 - Present

*Head of the Department*

Coimbatore

**Nallamuthu Gounder Mahalingam College** 2007 - 2007

*Assistant Professor*

Coimbatore

## **HONOURS AND AWARDS**

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**Excellence in Leadership for the outstanding contribution and achievements in academic discipline** 2025

Awarded by: SNS Institutions on March 2025

**Rotaract South Asia** 2025

Awarded by: Gurukul, an Initiative by Rotaract South Asia

**Bishma Acharya** 2025

Awarded by: Recognising Exemplary Contribution of Research and Education Sector

**NPTEL Online Course** 2025

Awarded by: Python for Data Science

**Resource Person** 2025

Awarded by: Government Arts and Science College, Valparai

**Best Assistant Professor - Outstanding Performance in Teaching** 2019

Awarded by: Research and Publications by ESN Publications & ESN Research Group, Chennai

## **PROFESSIONAL MEMBERSHIPS**

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**Doctoral Committee Member** 2024

*Research -Rathnavel Subramaniam College of Arts and Science (Autonomous), Sulur by Bharathiar University*

**Doctoral Committee Member** 2023

*Research -Park's College(Autonomous).*

## **COMMITTEE MEMBERSHIPS**

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**NAAC** 2025

*Criteria 6*

**BOS** 2025

*Chairman*

**ISO** 2025

*Auditor*

**MOOC** 2022

*Co-Ordinator*

**CDC** 2022

*Coordinator*

**IQAC** 2021

*Auditor*

**IQAC** 2020

*Auditor*

## **PUBLICATIONS**

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- Exploring The Synergy of Cognitive and Emotional Intelligence in Enhancing Student Learning**

*Dr.R.Nandhakumar*

International Conference on Recent Trends in Computer Science, Technology, Data Science, and Applications (ICRTCTDA-2025) , Vol. (2025) , pp. 24

- Advancing Knowledge from Multidisciplinary Perspective Engineering, Technology and Management**

*Dr.Padmanabhan Lakshmipathy*

International Journal for Multidisciplinary Research (IJFMR) , Vol. ISBN 978-80433-919-0 (2025) , pp. 130-138

- Effects of Excessive Mobile use on Child Development: Technological Solutions for Mitigation**

*Dr.R.Nandhakumar*

International Conference on Recent Trends in Computational Technologies and Sustainable Development Goals , Vol. (2025) , pp. 37

- Image Processing Design and Concepts of Cloud Computing**

*Dr.R.Nandhakumar*

International Conference on Mathematical and Computational Biology 3.0 , Vol. (2025) , pp. 112

- Blockchain and Consumer Data Privacy in Digital Marketing**

*Dr.R.Nandhakumar*

International Conference on "Recent Trends in Research and Innovation , Vol. (2025) , pp. 1

- The synergy of cognitive and emotional intelligence in enhancing student learning**

*Dr.R.Nandhakumar*

Artificial Intelligence in Logistics and Supply Chain Management Ethical Implications in Automation, Transparency and Sustainability , Vol. (2025) , pp.

- Designing and Evaluating a User-Centric Wearable AI Device for Visually Impaired Individuals: A Participatory Approach**

*Dr.R.Nandhakumar*

National Conference on AI & DS: Challenges and Opportunities in the Digital Era NCAI-DS 2025 , Vol. (2025) , pp. 159-165

- The Effectiveness of Mindfulness Practices in Enhancing Student Focus and Resilience**

**9. Analyzing the Effect of Emotional Intelligence Among College Students on Academic Achievements using Xgboost Algorithm**

*Dr.Nandhakumar.R.*

Journal of the Maharaja Sayajirao University of Baroda , Vol. (2025) , pp.

**10. Internet of Things: A Beginners Approach**

*Dr.Nandhakumar.R.*

Internet of Things: A Beginners Approach , Vol. (2025) , pp.

**11. LAP Lambert Academic Publishing**

*Dr.Nandhakumar.R.*

Foundations of Data Communication and Computer Networks , Vol. (2025) , pp.

**12. Intelligent Optimization Of Multicropping Strategies Across Irrigation Types Using Genetic Algorithms, Deep Learning, And Particle Swarm Optimization**

*Dr.Nandhakumar.R.*

Journal of the Maharaja Sayajirao University of Baroda , Vol. 59 (2025) , pp. 59-70

**13. Super and multi-resolution Analysis in Machine Learning**

*Dr.R.Nandhakumar*

Journal of Engineering Research and Sciences , Vol. (2024) , pp.

**14. Exploring the Synergy of Cognitive and Emotional Intelligence in Enhancing Student Learning**

*Dr.R.Nandhakumar*

Journal of Computational Analysis and Applications , Vol. 33 (2024) , pp. 5072-5077

**15. Digital Transformation: Smart Home Hawe Android Automation System**

*Dr.R.Nandhakumar*

National Seminar on "Empowering India through Digital Transformation: A Sustainable Approach" , Vol. (2024) , pp. 370-376

**16. Impact of Social-Emotional Learning Assessment on Educational Planning & Curriculum Development**

*Dr.R.Nandhakumar*

International Conference , Vol. (2024) , pp. 81

**17. The Nexus of Cognitive and Emotional Intelligence: A Study on Student Learning Outcomes**

*Dr.R.Nandhakumar*

National Seminar On Artificial Intelligence (AI) Innovations for Advanced Biological Science and Research, , Vol. (2024) , pp. 67-76

**18. IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)**

*Dr.R.Nandhakumar*

IEEE , Vol. (2024) , pp.

**19. The Nexus of Cognitive and Emotional Intelligence: A Study on Student Learning Outcomes for Academic Excellence**

*Dr.Nandhakumar R*

International Jouranal of Computer Communication and Informatics , Vol. 6 (2024) , pp. 19-33

20. **Brain Tumor Detection in MRI Metaphors by using Hybrid Model of Quantum Variational Classifier and Ensemble Transfer Learning**  
*Dr.Nandhakumar R*  
UGC-Care Approved Journal Adalya , Vol. 13 (2024) , pp. 27-36

21. **Analysing The Effectiveness of SEL Competencies On Enhancing Academic Outcomes Among College Students**  
*Dr.Nandhakumar R*  
Journal of Nonlinear Analysis and Optimization , Vol. 15 (2024) , pp. 98-105

22. **Internet of Things: A Beginners Approach**  
*Dr.R.Nandhakumar*  
LAP Lambert Academic , Vol. (2024) , pp.

23. **Effective Data Clustering using HDNL data**  
*Dr.R.Nandhakumar*  
International Conference on "Recent trends in Multi-Disciplinary Research and Innovation , Vol. (2024) , pp. 281-285

24. **ILLUMINATING BRAIN TUMOR IN MRI METAPHORS BY USING A HYBRID MODEL OF FASTER R-CNN AND SVM**  
*Dr.Nandhakumar R*  
Journal of the Maharaja Sayajirao University of Baroda , Vol. 57 (2023) , pp. 177-183

25. **Illuminating Brain Tumor in MRI Metaphors by Using a Hybrid Model of Faster R-CNN and CNN**  
*Dr.R.Nandhakumar*  
Journal of the Maharaja Sayajirao University of Baroda , Vol. 1 (2023) , pp. 191-198

26. **AN IOT BASED CONDITION MONITORING SYSTEM OF BIOGAS ELECTRICAL GENERATOR FOR PERFORMANCE EVALUATION**  
*Dr.Nandhakumar R*  
Journal of the Maharaja Sayajirao University of Baroda , Vol. Volume-57, No.1(II) (2023) , pp. 81-87

27. **ILLUMINATING BRAIN TUMOR IN MRI METAPHORS BY USING SVM CLASSIFIER**  
*Dr.Nandhakumar R*  
Journal of the Maharaja Sayajirao University of Baroda , Vol. V (2023) , pp. 67-74

28. **IOT - BASED AIR QUALITY MONITORING SYSTEM**  
*Dr.Nandhakumar R*  
IJCSPUB- International Journal of Current Science , Vol. Volume 12 Issue 2 (2022) , pp.

29. **IOT - BASED AIR QUALITY MONITORING SYSTEM**  
*Dr.Nandhakumar R*  
IJCSPUB- International Journal of Current Science , Vol. Volume 12 Issue 2 (2022) , pp.

30. **Efficient Clustering of high dimensional nonlinear data using modified Denclue algorithm**  
*Dr.R.Nandhakumar*  
Studies in Science of Science , Vol. 40 (2022) , pp. 9-19

31. **IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022)**  
*Dr.R.Nandhakumar*  
IEEE , Vol. (2022) , pp.

**32. Agricultural Soil Analysis using Data Mining Techniques**

*Nandhakumar, R*

International Journal of Information Security and Software Engineering , Vol. 6 (2020) , pp.

**33. Novel Temporal Sequence Pattern Based Human Activity Prediction using DVSM Approach**

*Dr.Nandhakumar, R*

Journal of The Maharaja Sayajirao University of Baroda , Vol. (2020) , pp.

**34. Novel Multistage Content Based Image Retrieval Approach using Curvelet Laplicient Filter**

*Dr.Nandhakumar, R*

Journal of Critical Reviews , Vol. 7 (2020) , pp.

**35. Modified Density-Based Clustering For Effective Data Clustering in Hdnl Data**

*Dr.Nandhakumar, R*

Tathapi , Vol. 19 (2020) , pp.

**36. High Dimensional Non Linear Data Using Modified Denclue Algorithm**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Tathapi , Vol. 19 (2020) , pp.

**37. Meta-Heuristic Method for Optimization in High Dimensional Non-Linear Data Using DNA Microarray**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

The International Journal of Analytical And Experimental Modal Analysis , Vol. XI (2019) , pp.

**38. M-DENCLUE Detection in High Dimensional Non-linear Data in Clustering Techniques**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Journal of Interdisciplinary Cycle Research , Vol. 11 (2019) , pp. 569-578

**39. Density Based Clustering Algorithms in High Dimensional Non-Linear Data Set**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Cikitusi Journal for Multidisciplinary Research , Vol. 6 (2019) , pp.

**40. Cluster Analysis On High- Dimensional Non-Linear Data: Density-Based Clustering Algorithms**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Journal of Information and Computational Science , Vol. 9 (2019) , pp.

**41. A STUDY ON BIG DATA HADOOP AND ITS DATABASE TOOLS**

*R. NANDHAKUMAR AND ANTONY SELVADOSS THANAMANI*

Journal of Analysis and Computation (JAC) , Vol. (2019) , pp. 1-7

**42. Clustering based algorithm on density distribution function**

*Nandhakumar R, Dr.Antony Selvadoss Thanamani*

International journal of information and cimputing science, ISSN : 0972-1347 , Vol. (2019) , pp.

**43. Clustering high dimensional non-linear data with denclue, optics and clique algorithms**

*Nandhakumar R.;Thanamani A.*

International Journal of Recent Technology and Engineering , Vol. 8 (2019) , pp. 8848-8852

**44. Towards framing an integrated model for optimization and clustering (IMOC) high-dimensional non-linear DNA data processing using ACO and DENCLUE**

*Nandhakumar R.;Thanamani A.S.*

**45. DBSCAN: Fast Density-Based Clustering**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Compliance Engineering Journal , Vol. 10 (2019) , pp. 89-102

**46. DNA Microarray Data Reduction Method for Dimensionality Problems**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

International Journal of Contemporary Research in Computer Science and Technology (IJCRCST) , Vol. 5 (2019) , pp. 34-39

**47. Curse of Dimensionality A High Dimensional Non-Linear Methods for Reduction in Microarray Data**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Suraj Punj Journal for Multidisciplinary Research , Vol. 9 (2019) , pp. 1021-1031

**48. An Efficient Approach of Clustering High Dimensional Non-Linear Data with Noise**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Universal Review Journal , Vol. 8 (2019) , pp. 989-995

**49. A Clustering Technique for Reducing Noise in High Dimensional Non-Linear Data Using M-DENCLUE Algorithm**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE) , Vol. 8 (2019) , pp.

**50. OPTICS A Density-Based Algorithm for Discovering Cluster in Large Databases with Noise**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

Asian Journal of Applied Science and Technology (AJAST) , Vol. 3 (2019) , pp. 46-56

**51. M-denclue for effective data clustering in high dimensional non-linear data**

*Nandhakumar R.;Thanamani A.*

International Journal of Innovative Technology and Exploring Engineering , Vol. 9 (2019) , pp. 2925-2927

**52. A SURVEY ON DATA CLASSIFICATION IN DATA MINING**

*R NANDHAKUMAR, ANTONY SELVADOSS THANAMANI*

Indo-Iranian Journal of Scientific Research (IIJSR) , Vol. 2(3) (2018) , pp. 343-352

**53. A Survey on E-Health Care for Diabetes Using Cloud Framework**

*Nandhakumar, R. and Antony Selvadoss Thanamani*

International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) , Vol. 4 (2017) , pp.