


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. G Manikandan / T1146			
Designation	Professor			
Department	Artificial Intelligence and Data Science			
Date of Joining the Institution	15.07.2024			
Qualifications	Ph.D.	M.E	B.E	
Total Experience	Overall: 23 years 02 months		in RMK:	
Papers Published in Journal	Overall: 33		After Joining RMK:	
List of Papers Published	<ol style="list-style-type: none"> 1. Soma Prathibha, Vivekanandan G, Rupali S Kamathe, Hanchate Vandana Vijaykumar, G. Bhuvaneshwari, G. Manikandan, G. Sabarinathan, Mustafa Nawaz S M, Reef Vista: Deep Learning-Powered Underwater Coral Reef Monitoring, Journal of Propulsion Technology, ISSN : 1001-4055, Vol. 45 No. 03 (2024), Page No: 119-135 2. Suresh G, Bhuvaneshwari G, Manikandan G, Robinson Joel M, “Multi-Features and Fuzzy with Residual Lenet for Cotton Classification using Remote Sensing Image”, Expert Systems with Applications, Manuscript Number : ESWA-D-24-01593 (SCI) 3. Suresh G, Robinson Joel M, Manikandan G, Bhuvaneshwari G, “Deep Convolutional Kronecker neural network-based interested region selection for Fingerprint-based robust medical image watermarking”, Multimedia Tools and Applications, Manuscript Number : MTAP-D-23-10148 (SCI) 4. Robinson Joel M, Manikandan G, Bhuvaneshwari G, Shanthakumar P “Novel and secured Namib beetle Pelican optimization based key generation and search operation in block chain-enabled keyword Search over the government data” (SCI) 5. Suresh G, Bhuvaneshwari G, Manikandan G, Shanthakumar P, “Chronological bald eagle optimization based deep learning for image watermarking”, Expert Systems with Applications, Volume 238, Part C, 15, 121545, https://doi.org/10.1016/j.eswa.2023.121545 (SCI) 6. Suresh G, Manikandan G, Bhuvaneshwari G, Shanthakumar P, “Pelican Whale Optimization Enabled Deep Learning Framework for Video Steganography Using Arnold Transform-Based Embedding”, International Journal of Pattern 			

Recognition and Artificial Intelligence
<https://doi.org/10.1142/S0218001423590267> (SCI)

7. Kalaiselvan K, Saravanan R, Adhavan B, **Manikandan G**, “**Hybrid methodology-based energy management of microgrid with grid-isolated electric vehicle charging system in smart distribution network**”. Electrical Engineering (2023). 11, <https://doi.org/10.1007/s00202-023-02095-9> (SCI)
8. Robinson Joel M, **Manikandan G**, Bhuvanewari G, Shanthakumar P, “**SVM-RFE enabled feature selection with DMN based centroid update model for incremental data clustering using COVID-19**”, Computer Methods in Biomechanics and Biomedical Engineering, Volume 24 Jul 2023, Pages :1-15, PMID: 37485999, <https://doi.org/10.1080/10255842.2023.2236744> (SCI)
9. **Manikandan G**, Bui Thanh Hung, Siva Shankar S, Prasun Chakrabarti (2023). “**Enhanced AI-Based Machine Learning Model for an Accurate Segmentation and Classification Methods**”. International Journal on Recent and Innovation Trends in Computing and Communication, Volume 11, No: (3s), Pages : 11–18. ISSN: 2321-8169 <https://doi.org/10.17762/ijritcc.v11i3s.6150> (SCOPUS)
10. Robinson Joel M, **Manikandan G**, Nivetha M, “**Marine Weather Forecasting to Enhance Fisherman's Safety Using Machine Learning**”, International Journal of Scientific Research in Science, Engineering and Technology, P. ISSN : 2395-1990, E. ISSN : 2394-4099, Volume 10, Issue 2, pp.519-526, March-April-2023. <https://doi.org/10.32628/IJSRSET2310288> (UGC Care)
11. **Manikandan G**, Robinson Joel M, Lidiya S, Jones Raj, Madlin Jency D, “**Twitter Sentiment Analysis using Machine Learning**”, International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET), Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 10, Issue 2, pp.665-669, March-April-2023 <https://doi.org/10.32628/IJSRSET2310281> (UGC Care)
12. Robinson Joel M, **Manikandan G**, Shiji B, Sharmila S, “**Smart Health Prediction and Drug Recommendation Using Data Mining**”, International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET), Print ISSN:2395-1990, Online ISSN : 2394-4099, Volume 10, Issue 2, pp.506-513, March-April-2023.

<https://doi.org/10.32628/IJSRSET2310284> (UGC Care)

13. Robinson Joel M, **Manikandan G**, Jose Saranish D, Jensing Samuel A. S, Kiruthika K, Balavasan S, “**Framework of Smart Home Automation and Security**”, International Journal of Scientific Research in Science, Engineering and Technology(IJSRSET), Print ISSN : 2395-1990, Online ISSN : 2394-4099, Volume 10, Issue 2, pp.272-279, March-April-2023. <https://doi.org/10.32628/IJSRSET2310229> (UGC Care)
14. Sadish Sendil M, Maithili K, **Manikandan G**, Bhuvaneshwari G, Kirubakaran S, Tholkapiyan M, “**Epilepsy Seizure Feature Extraction using Discrete Wavelet Transform for Healthcare Application**”, Neuro Quantology, Volume 20 Issue 12 Pages 239-246 (2022) Publisher AnKa Publisher, ISSN 1303 5150. <https://doi.org/10.14704/nq.2022.20.12.nq77020> (SCOPUS & Web of Science)
15. D. Karunkuzhali, D. Geetha, **G. Manikandan**, J. Manikandan and V. Kavitha, "Artificial Intelligence and Advanced Technology based Bridge Safety Monitoring System," 2022Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), 2022, pp. 631-634, (SCOPUS) <https://doi.org/10.1109/I-SMAC55078.2022.9987328>
URL:<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9987328&isnumber=9986494>
16. **G Manikandan**, D Karunkuzhali, D Geetha, V Kavitha, "Design of an Internet of Things Approach for Security Surveillance system for Industrial Process Monitoring Using Raspberry-Pi", AIP Conference Proceedings, ISSN1551-7616, Volume. No. 2519. Issue : 1, (2021). <https://doi.org/10.1063/5.0109769> (SCOPUS)
17. **Dr. G. Manikandan**, Dr. G. Bhuvaneshwari "Knowledge Discovery in Data of Prostate Cancer By Applying Ensemble Learning ", Indian Journal of Computer Science and Engineering, <https://doi.org/10.21817/indjcse/2022/v13i3/221303182>, e-ISSN:0976-5166 p-ISSN:2231-3850 Vol. 13, No. 3, pp: 907-916, (SCOPUS)
18. **Dr. G. Manikandan**, G. Bhuvaneshwari, "A Smart Speed Governor Device for Vehicle Using IOT", Webology, [https://www.webology.org/data-cms/articles/20220324065920pmwebology%2019%20\(2\)%20-%20478%20pdf.pdf](https://www.webology.org/data-cms/articles/20220324065920pmwebology%2019%20(2)%20-%20478%20pdf.pdf) ISSN : 1735-188x, Vol: 19, Issue: 2, pp : 6544-6554, (SCOPUS)
19. S. Suhasini, J. M. SheelaLavanya, M. Parameswari, **G. Manikandan** and S. Gracia Nissi, "Input Based Resource Allocation in Motion Estimation using Re-configurable Architecture," 2021 Fifth International

Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Palladam, India, 2021, pp. 1091-1095, <https://doi.org/10.1109/I-SMAC52330.2021.9640698> (**SCOPUS**)

20. D Geetha, V Kavitha, **G Manikandan**, D Karunkuzhali, “**Enhancement and Development of Next Generation Data Mining Photolithographic Mechanism**”, Materials Science and Engineering, <https://dx.doi.org/10.1088/1742-6596/1964/4/042092>
Online ISSN: 1757-899X Print ISSN: 1757-8981, Journal of Physics, Volume 1964, Advances in Computer Science Engineering, 2021. (**SCOPUS**)
21. V. Kavitha, D. Geetha, D. Karunkuzhali, **G. Manikandan**, “ **A Completely Distributed Blockchain Period Authentication Framework** ”, IOP Conference Series : Materials Science and Engineering <https://doi.org/10.1088/1742-6596/1964/4/042047> Online ISSN : 1757-899X Print ISSN:1757-8981, Published under license by IOP Publishing Ltd, Journal of Physics: Conference Series, Volume 1964, Advances in Computer Science Engineering, 2021. (**SCOPUS**)
22. **G. Manikandan**, G. Bhuvanewari, Suhasini, K. G. Saravanan, M. Parameswari and D. S.Rani, "**Traffic Control Loss and to Handle Seamless Mobility in a Heterogeneous Network with Lesser Transmission Delay**," 2021 5th International Conference on Trends in Electronics and Informatics (ICOEI), 2021, pp.708-715, <https://doi.org/10.1109/ICOEI51242.2021.9452920> ., XPLORE COMPLIANT ISBN : 978-1-6654-1571-2 DVD ISBN: 978-1-6654-1570-5 (**IEEE Xplore@Digital Library**) (**SCOPUS**)
23. Nivedha Samson, **G. Manikandan**, "**DEVELOPMENT OF BOTTLE RECYCLING MACHINE USING CNN MODEL**" International Journal of Advanced Development in Science and Technology, e-ISSN : 2582 - 1059, Volume : 3 Issue : 05 June 2021, https://www.ijadst.com/ajradmin/certificates/168/IJADST_2021068.pdf (**UGC**)
24. E.Sathish, **G. Manikandan**, G. Bhuvanewari, "**Design and development of multi controlled smart bike**, Materials Today : Proceedings, 2021, ISSN2214-7853, Science Direct, Elsever, <https://doi.org/10.1016/j.matpr.2021.01.488> (**SCOPUS**)
25. Swedha Samson, **Dr. G. Manikandan**, " **AN IOT BASED INTELLIGENT SAFETYSYSTEM WITH SENSORS FOR SMART HOMES** " International Journal of Advanced Development in Science and Technology, e-ISSN:2582- 1059, Volume : 2 Issue : 06 September 2020, https://ijadst.com/ajradmin/certificates/103/IJADST_20

[200916.pdf](#) (UGC)

26. **G. Manikandan, G. Bhuvanewari, “An Intelligent Intrusion Detection System for Secure Wireless Communication using IPSO and Negative Selection Classifier”** CLUSTER COMPUTING – The Journal of Networks Software tools and Applications, P-ISSN : 1386-7857, E-ISSN : 1573-7543, 1st February 2018. pp: 1-13, <https://doi.org/10.1007/s10586-017-1643-4> (SCI)
27. **G. Manikandan, G. Bhuvanewari, “ A Novel Machine Learning Framework for Diagnosing the Type 2 Diabetics using Temporal Fuzzy ant miner Decision Tree Classifier with Temporal Weighted Genetic Algorithm”** Computing, E-ISSN : 1436 – 5057, P-ISSN : 0010 – 485X, Vol.100, Issue. 8, pp: 759-772, <https://doi.org/10.1007/s00607-018-0599-4> (SCI)
28. **G. Manikandan, G. Bhuvanewari. (2016) “Fuzzy-GSO Algorithm for Mining of Irregularly Shaped Spatial Clusters”,** Asian Journal of “Research in Social Sciences and Humanities”, <http://dx.doi.org/10.5958/2249-7315.2016.00297.5> ISSN:2249–7315 (Online),2250– 1665 (Print). Vol 6, Issue6. Pp1431-1452.(SCI)
29. **G. Manikandan, S. Srinivasan, (2013) “An Efficient Algorithm for Mining Spatially Co-Located Moving Objects”,** International Journal on “American Journal of Applied Sciences”, pp. 195 - 208, ISSN: 1546 – 9239 Vol 10, No 3. (SNIP: 0.091, SJR: 0.042). <https://doi.org/10.3844/ajassp.2013.195.208> (SCOPUS)
30. **G. Manikandan, S. Srinivasan, (2012) “Mining Spatially Co-Located Objects from Vehicle Moving Data”,** International Journal on “European Journal of Scientific Research”, ISSN 1450-216X Vol.68 No.3 (2012),pp.352-366,January2012.(SCI)
31. **G. Manikandan, S. Srinivasan, (2012) “Mining of Spatial Co-location Pattern Implementation by FP Growth”,** National Journal on “Indian Journal of Computer Science and Engineering”, pp. 344 -348, ISSN: 0976 – 5166 Vol. 3, No 2.(SCOPUS)
32. **G. Manikandan, S. Srinivasan, (2011) “A Study of mining for spatially co-located moving objects”,** International Journal on “CiiT International Journal of Data Mining and Knowledge engineering”, PP838-843, ISSN:0974–9683 Volume3, No13, October2011.
33. **G. Manikandan, S. Srinivasan, (2011) “Designing a Well-structured E-shop using Incremental Association Rule Mining and Using Direct Grouping Based Approach of Optimal Segmentation”,** International Journal of Engineering Research and Industrial Applications “IJERIA” PP 365-384, ISSN:0974-1518. Vol:4, Issue:1. (UGC)
34. **G. Manikandan and Srinivasan, S. (2012) “The**

	<p>Application of Spatial Data Mining in Traffic Geographic Information Systems", National Journal on "Advances in computational Sciences and Technology", pp. 101–110,ISSN0973–6107.Vol.5,No.2.</p>
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Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 34	After Joining RMK :
Ph.Ds / Projects Guided	Ph.Ds Guided :	Student Projects Guided : 24
Books Published :	Count : 6	
	<ol style="list-style-type: none"> 1. Dr G Manikandan, Dr G Bhuvanewari, "Data Mining and Data Warehousing", ISBN: 978-93-94304-51-2, GCS Publications. 2. Dr. B Narsimha, Dr. S. Srinivas, Dr. G Manikandan, Dr. G Bhuvanewari, "Artificial Intelligence for Beginners", Scientific International Publishing House., 2022.ISBN:978-93-5625-242-4 3. Dr. G. Manikandan., Dr. V. Kavitha, Dr. D. Geetha, Dr. D. Karunkuzhali, "Classification Accuracy of Web Traffic", Book Chapter PP 25-29., Recent Trends in Intelligent Automation and Computing Techniques, ISBN No, 978-93-94639-07-2., Published by Dipti Press (OPC) Pvt. Ltd.2023. 4. Dr. V. Kavitha, Dr. D. Geetha, Dr. D. Karunkuzhali, Dr. G. Manikandan., "Accumulative Genome Fuzzy Prospecting Estimation Comparative Genomic Data. Cloud Computing with Wireless Network and Pattern Recognition", Book Chapter PP34-39., ISBN No,978-81-952585-3-6., Published by Dipti Press (OPC) Pvt. Ltd.2021 5. Dr G Suresh, Dr. G. Manikandan., Mr K G Saravanan., Mr. G Gnanakumar., "Implementation and Prediction on Rainfall Analysis Using Machine Learning Approaches", Book Chapter, pp 30 - 36. ISBN : 978-93-86923-47-9, Published by Dipti Press(OPC)Pvt. Ltd.2020 6. Dr. G. Manikandan., Dr R Saravanan, "Principles of Management", 7th Semester (AnnaUniversity-2017 Regulations) Charulatha Publication. September 2020. 	

Patents	Published Count : 5	Granted Count : -
	<p>1. Patent Title : Smart Compact Structural Instrument Patent Application No : 201741036984A Patent office Journal No : 43/2017 Published on : 27/05/2017</p> <p>2. Patent Title : System and Method to control turn indicators of Automobiles Patent Application No : 201941019210A Patent office Journal No : 21/2019 Published on : 24/05/2019</p> <p>3. Patent Title : IOT Based Wearable Wireless Volume Control Device for any Electronic Gadgets Patent Application No : 202041049423A Patent office Journal No : 47/2020 Published on : 20/11/2020</p> <p>4. Patent Title : A Machine Learning and AI Based Approach for Transcribing Signal In 6G Wireless Communication Network Patent Application No : 202241062362A Patent office Journal No : 46/2022 Published on : 18/11/2022</p> <p>5. Patent Title : Dynamic Ai-Based Pricing Optimization Algorithm For E-Commerce Platforms Patent Application No : 202441003514 Patent office Journal No : /2024 Published on : 09/02/2024</p>	
	Professional Memberships	
	Count : 7	
	<p>1. ISTE (Indian Society for Technical Education) Membership No: LM96194.Life Member. 2. IEAE (Institute for Exploring Advances In Engineering) ID.: IEAE2017494B.Life Member. 3. ISRD (International Society for Research and Development) Student Membership ID: SM3140906495 / FellowMemberID:SM3140906495 4. IAENG (International Association of Engineers) ID: 233919. Life Member 5. CSI (Computer Society of India) Member. No.: N1285636. 6. IACSIT (International Association of Computer Science and Information Technology) 7. InSc (Institute of Scholars)</p>	
Consultancy Projects Completed		
	Count : 6	

Awards Received	<ol style="list-style-type: none"> 1. Best Contribution in academic as well research & development activity. Organized by the International Journal of MC Square Scientific Research, Chennai on January 21-23, 2021 at International Conference on Emerging Trends in Science, Engineering & Management (ICETSEM-2021) 2. Award for exceptional contribution as jury in “Internal Hackathon for Smart India Hackathon,2020”at Kings Engineering College. 3. Certification of Appreciation for organized a Technical Event in “TechVeda 2K17 (Technical Symposium)” during 20-25 February 2017 at Tirumala Engineering College, Hyderabad. 4. Served as a Co-ordinator of the Anna University Approved Seven Days Faculty Development Training Programme for Winter Vacation 2015 (25-30th Nov & Dec 2015) at Loyola Institute of Technology. 5. Awarded as a “Best Teacher” for the academic Year 2006 – 2007 at Maamallan Institute of Technology on 05thSeptember2007. 6. Awarded as a “Best Teacher” for the academic Year 2007 – 2008 at Maamallan Institute of Technology on 05thSeptember2008.
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Research grants Received	<ol style="list-style-type: none"> 1. Rs 6,61,362 (Six Lakhs Sixty-One Thousand Three Hundred and Sixty-Two Rupees only) From AICTE Sponsored Faculty Development Program. The Sanction of the council for payment Rs 6,61,362 (Six Lacks sixty-one thousand three hundred and sixty-two rupees only). for conduct of two-week Faculty Development Program on Big Data Analytics by Using Python and Hadoop. F.No.34-55/25/RIFD/ FDP/Policy-1/2017-18. Dated 10th May 2019.
Orchid Link / ID	https://orcid.org/my-orcid?orcid=0000-0002-4323-8233
Google Scholar Link / ID	https://scholar.google.com/citations?user=d08vtdgAAAAJ&hl=en
Vidwan Link / ID	https://vidwan.inflibnet.ac.in/profile/386070
Research Gate Link / ID	https://www.researchgate.net/profile/Manikandan-G-Manikandan
Scopus Link / ID	https://www.scopus.com/authid/detail.uri?authorId=57226894784