


# FACULTY PROFILE

<b>Name of Teaching Staff / RMK ID</b>			
	<b>Dr.R.Sheeja/T1134</b>		
<b>Designation</b>	Associate Professor		
<b>Department</b>	Artificial Intelligence and Data Science		
<b>Date of Joining the Institution</b>	30.05.2024		
<b>Qualifications</b>	B. E	M.Tech	Ph.D
<b>Total Experience</b>	Overall: 20		In RMK: 1 Year 2 Months
<b>Papers Published in Journal</b>	Overall: 09		After Joining RMK: 02
<b>List of Papers Published</b>	<ol style="list-style-type: none"> <li>1. <b>Sheeja Raghavan, Vijaya Bhaskar Sadu, R Shobana, R Kala</b> " Brain multi-modality image inpainting via deep learning-based edge region generative adversarial network "Technology and Health Care, Sage Journals, IOS Press,2024,<a href="https://doi.org/10.1177/09287329241300986">https://doi.org/10.1177/09287329241300986</a> <b>(SCI), Quartile 1</b></li> <li>2. Mangayarkarasi, p,<b>Raghavan sheeja</b>, kaliappan, m,sivarathinabala, m rajangam, Balamurugan,alagarsamy, manjunathan"Decentralised Edge Intelligence (DEI); YOLOv7; blockchain-based authentication; edge computing; global attention mechanism; low-latency IoT applications; real-time analytics,Journal of Environmental Protection and Ecology <a href="https://scibulcom.net/journal/1311-5065/issue/2025-26-26">https://scibulcom.net/journal/1311-5065/issue/2025-26-26</a><b>(Scopus)</b></li> <li>3. <b>Sheeja.R</b>, Iqbal M.M., Sivasankar, C" Multi-objective-derived energy efficient routing in wireless sensor network using adaptive black hole-tuna swarm optimization strategy "Ad Hoc Networks, 2023, 144, 103140 <b>(SCI), Quartile 1</b></li> <li>4. <b>R. Sheeja</b> and J. Sutha "Soft <b>fuzzy computing to medical image compression in wireless sensor network- based tele medicine system</b>" has been published in Online in Springer- Multimedia Tools and Applications, ISSN: 1573-7721<b>(SCI), Quartile 1</b></li> <li>5. Bibin.C, <b>Sheeja.R</b>, Devarajan.Y,Ponnappan,V.S."Environment impact</li> </ol>		

assessment of agricultural diesel engines utilizing biodiesel derived from phoenix sylvestris oil”, *Environmental Research*, 2023, 224, 115432(SCI), **Quartile 1**

6. Bibin, C., **Sheeja, R.**, Devarajan, Y., Ouladsmame, M., Kalam, M.A.” Process optimization study on the feedstock derived from Cerbera odollam **seeds**”, Biomass Conversion and Biorefinery, 2023 (SCI), **Quartile 2**
7. Chidambaranathan Kumaraswamy D.P, **Raghavan Sheeja**, Sundaram, M.” Thermal and chemical exhaust gas recirculation potential of punnai oil biodiesel-fuelled diesel engine for environmental sustainability, Environmentah Science and Pollution Research,1,0.1007/s11356-022-20463-z (SCI & Scopus)- **Quartile 1**
8. Influence of Nanofiller Lignite Fly Ash on Tribo-Mechanical Performance of Sansevieria Roxburghiana Fiber Reinforced Epoxy Composites Ashok, Kumaresan, Ajith, Damodaran, Nishanth, **Sheeja Raghavan**, Dec 2022, Journal of Natural Fibres (WOS), **Quartile 1**
9. Nikhil Teja and **R. Sheeja** “Security in cloud using locality scheme and nearest neighbouring scheme” has been published in Scopus Indexed International Journal of Recent Technology and Engineering. (SCOPUS)
10. **R. Sheeja**, Chidambaranathan Bibin, Priya R Krishnan, Nishanth, Gopinath and K.G.Ashok “Secure File Sharing System in Cloud Using AES and Time Stamping Algorithms” has been published in Scopus Indexed Journal IOP Conference series, Materials Science & Engineering. (SCOPUS)
11. ChidambaranathanBibin, P.K. Devan, S. SenthilKumar, S. Gopinath, **R. Sheeja,K.G.**Ashok “Effect of palmitic and oleic acid mixture on performance and emission analysis of a di diesel engine”, <https://doi.org/10.1016/j.matpr.2020.10.735> in Elsevier, Materials Today Proceedings.(WOS)
12. Chidambaranathan Bibin, P.K. Devan, S. SenthilKumar, S. Gopinath, **R. Sheeja, K.G.** Ashok “Influence of palmitic and oleic acid mixture on combustion evaluation of a diesel engine”, Materials Today: Proceedings 45, 6638-6644 (WOS)
13. C Bibin, PK Devan, SS Kumar, S Gopinath, **R Sheeja**, Thermal performance ofLithium-Ion battery pack using forced air circulation system, Materials Today: Proceedings 46,670-3676 (SCOPUS)
- 12.**Sheeja, R.**, Mounika, N, Bibin, C, Nishanth, R, Umaeswari, P.” Enhanced performance in detecting phishing website based on proficient component based machine learning AIP Conference Proceedings, 2022, 2393, 020021, 19 May 2022 (SCOPUS)
- 13.**Sheeja, R.**, Umaeswari, P, Bibin, C, Nishanth, R , Chandana, S.H. Local train ticketing system using web services, AIP Conference Proceedings, 2022, 2393,020022, 19 May 2022(SCOPUS)
- 14.Bibin, C., Kumar, S.S., Aravindhnan, N, **Sheeja, R**, Ramachandran, M.Flow analysis of secondary air injection in conical rocket nozzle, AIP Conference Proceedings ,2022, 2393, 020048, 19 May 2022 (SCOPUS)
- 15.**Sheeja, R.**, Umaeswari, P., Bibin, C., Nishanth, R., Ashok, K.G. Classification and prediction of cancer using data mining AIP Conference Proceedings, 2022, 2393,020024(SCOPUS)
16. Bibin, C., Devan, P.K., Senthil Kumar, S., Madhu, S., **Sheeja, R.** Characterization of Nonedible Punnai Oil Biodiesel Derived by Two-Stage Transesterification, Green, 2022, pp. 205–229 (SCOPUS)
17. FR-4-based Single-Element Rectangular Micros Trip Patch Antenna for ISM

- Band Applications Kumar, S.V.M., Duraibabu, A., Nishanth, R., ...**Sheeja, R.**, Kumar, K.S.1st IEEE International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2022, 2022 (**SCOPUS**)
18. Book Chapter, Computational Fluid Dynamic Analysis of Exhaust Gas Calorimeter Chidambaranathan, B., Kumar, S.S., Gopinath, S., **Sheeja, R.**, 2023, pp. 357–367 (**SCOPUS**)
19. **Sheeja R**, Jeffery George MT; Laya Prathap Nambiar; Monisha S,” Survey on Pavement Distress Detection and Recognition”, IEEE, 10.1109/ic-ETITE58242.2024.10493639 2024 (**SCOPUS**)
20. **R Sheeja**, R Akshaya; S Akshaya; D R Jashwanthikaa,” AI-Optimized Eco-Charge Regeneration Technology in EV”, IEEE, EV”, IEEE, 10.1109/ESCI59607.2024.10497310,2024(**Scopus**)
21. **R. Sheeja**, S. Vanaja, Adimoolam M & Chidambaranathan Bibin,” Spatial-Based Big Data and Large-Scale Network Management” Part of the book series: [Big Data Management](https://link.springer.com/chapter/10.1007/978-981-99-9651-3_3) (BIGDM), [https://link.springer.com/chapter/10.1007/978-981-99-9651-3\\_3](https://link.springer.com/chapter/10.1007/978-981-99-9651-3_3), Springer 2024(**Scopus**)
22. Jose P; Rekha S; Ponkavin B; Hemkiran S; **Sheeja R**; P.V. Gopirajan,”Automated Vision-Based System for Real-Time Detection and Classification of Rice Diseases using YOLO-NAS Published in: 2025 2nd International Conference on Trends in Engineering Systems and Technologies (ICTEST), IEEE (**Scopus**)
23. Gladson Oliver S; Prathusha Perugu; Jeevitha S; Rashima Mahajan; Jasmine Gnana Malar A; Raghavan Sheeja; Ahilan Appathurai; Aarti,” Deep Learning-based Mango Leaf Disease Detection using Yolov8, IEEE (Scopus)
24. Detection Of Counterfeit Images Through Deep Learning based Yolov3 Model Jobez J. C; Golden Nancy R; Syed Rabiya Mohamed Ali; Muthukumar N; Raghavan Sheeja; Jasmine Gnana Malar A 2025 3rd International Conference on Advancement in Computation & Computer Technologies (InCACCT), 2025, IEEE
25. K. Rajesh, Bibin Chidambaranathan, Sheeja Raghavan, R. Ashok Kumar, S. Arunkumar, Gopinath Soundararajan, S. Madhu”Development and Analysis of Hybrid Electric Two-Wheeler for City Driving 2024-01-5216”, SAE mobilus Scopus)
26. Bibin Chidambaranathan, Sheeja Raghavan, Gopinath Soundararajan, S. Arunkumar, R. Ashok Kumar, K. Rajesh.”Review of Mechanical Properties of Basalt Fibre-Reinforced Polymer Composites for Automotive Applications”, SAE Mobilus (Scopus)
27. J. Guru Mohish Srivastava, **R. Sheeja** “Design and Implementation of Crypto based water Marking Techniques for EHR Security” ISSN: 0193-4120, Page No.10788 – 10792, vol 82, Test Engineering & Management.
28. Guggilla Venkata Sivaiah, **R. Sheeja** “Optimization of Flight Scheduling using Quality of Service Routing- A Survey” ISSN: 0193-4120 Page No.10812 – 10815, Vol 82, Test Engineering & Management.
29. V. Jagadeeswar Reddy, **R. Sheeja** “Survey on Different Dimensionality Reduction Techniques using Machine Learning Framework” ISSN: 0193-4120 Page No.10654 - 10658, vol 82, Test Engineering & Management.
30. Narravalu Mounika, **R. Sheeja** “A Survey on Detection of Phishing Websites Using an Efficient Feature based Machine Learning Framework” ISSN: 0193-4120 Page No.10572 -10578, vol 82, Test Engineering & Management
31. V. Jagadeeswar Reddy, **R. Sheeja** “ Dimensionality Reduction Technique

	<p>Using Machine Learning by Pack Algorithm” May-June 2020 ISSN: 0193-4120 Page No.12939 –12943, Test Engineering &amp; Management.</p> <p><b>32.</b>J. Guru Mohish Srivastava <b>R.Sheeja</b> “Implementation of Triple DES ALGORITHM in Data hiding and Image Encryption Techniques” Vol. 29, No. 3, (2020), pp. 10549 – 10559 has been published in International Journal of Advanced Science &amp; Technology.</p> <p><b>33.</b> Chigicherla Bharath Kumar Reddy, <b>R. Sheeja</b> “Optimizing the Life Time of Wireless Sensor Networks by Using Clustering and Genetic Algorithms” ISSN: 0193-4120 Page No. 1282 – 1286, Test Engineering &amp; Management.</p> <p><b>34.</b>Chigicherla Bharath Kumar Reddy, <b>R. Sheeja</b> “Increasing the life time of wireless Sensor Networks by using algorithms” ISSN- 2394-5125 Vol 7, Issue 14, Journal of Critical Reviews</p> <p><b>35.</b>Guggilla Venkata Sivaiah, <b>R. Sheeja</b> “Flight scheduling for airport throughput and Flight Delay optimization”, ISSN- 2394-5125 Vol 7, Issue 14, 2020, Journal of Critical Reviews</p>	
<b>Papers Presented in Conferences</b> (Scopus / WoS indexed only)	Overall: 19	After Joining RMK: 05
<b>Ph.Ds / Projects Guided</b>	Ph.Ds Guided : Nil	Student Projects Guided: 30
<b>Books Published:</b>	Count:2	
	<p>1.Published the text book titled “Doorstep Python Programming” ISBN: 9781639744299, Publisher: Notion Press July 2021</p> <p>2. Published the text book titled Big Data and Data Analytics using R” ISBN:9789357574334 in August 2023</p> <p>3.Published the text book titled “ Natural Language Processing”,ISBN:978-93-6940-438-4</p>	
<b>Patents</b>	Published Count:5	Granted Count:1
	<ul style="list-style-type: none"> <li>➤ Published Patent “<b>Remote Prescription and Health care based IOT</b>” (201941041420) in Intellectual Property India patent.</li> <li>➤ Published Patent “<b>Medical Equipment Data Processing Framework using Hybrid Fog-Edge Computing</b>” (202241003853) in Intellectual Property India patent.</li> <li>➤ Patent Granted” <b>IoT based automated Rail track Inspection Trolley</b>” (386059-001) in Intellectual Property India patent</li> <li>➤ Published Patent “<b>IntelliMeet: AI-Powered Virtual Classroom</b>” (202541022994 A) in Intellectual Property India patent.</li> <li>➤ Published Patent “<b>Harnessing the Power of Digital Technology to Maximize Agricultural Business Profits</b>” (202541015886 A) in Intellectual Property India patent.</li> </ul>	
<b>Professional Memberships</b>	Count: 5	

	List: <ul style="list-style-type: none"> <li>➤ The Indian Society for Technical Education (ISTE), Life member, LM 63225</li> <li>➤ International Society for Research and Development (ISRD), Life Member, M4150900713</li> <li>➤ International Academy for Science and Technology Education and Research (IASTER), Membership No. 16060292</li> <li>➤ International Association of Engineers (IAENG), Member Number: 235163</li> <li>➤ Computer Science Teachers Association (CSTA)</li> </ul>
<b>Consultancy Projects Completed</b>	Count:1
<b>Awards Received</b>	Count:9
	List: <ul style="list-style-type: none"> <li>➤ Received National Level <b>Best Faculty Award</b> from Dr. Kalam Educational Trust in the year 2020 in recognition of meritorious service and Achievements in Academic.</li> <li>➤ Received Best <b>Women Researcher Award</b> in the International Conference on Science and Engineering (ICSE 2023) on 27th and 28th February 2023 Organized by IEI, Hosur Local Centre, Krishnagiri, Tamil Nadu, India &amp; REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu, India.</li> <li>➤ Received Certificate of <b>appreciation award from IIT Madras</b> for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari Engineering College, Tamilnadu Rated "AA", 48th rank all over India based on the Performance in NPTEL Online Certification Courses Jan-April 2023.</li> <li>➤ Received <b>Certificate of appreciation award from IIT Madras</b> for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari Engineering College, Tamilnadu Rated "A" 57th rank all over India based on the Performance in NPTEL Online Certification Courses July-Dec 2023.</li> <li>➤ Received Certificate of <b>appreciation award from IIT Madras</b> for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari Engineering College, Tamilnadu Rated "AA" 52nd rank all over India based on the Performance in NPTEL Online Certification Courses Jan-April 2024.</li> </ul>
<b>Research grants Received</b>	nil
<b>Orchid Link / ID</b>	Link: <a href="https://orcid.org/0000-0001-7242-2817">https://orcid.org/0000-0001-7242-2817</a> ID: 7242-2817

<b>Google Scholar Link / ID</b>	ID: <a href="https://scholar.google.co.in/citations?user=dzsysjMAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=dzsysjMAAAAJ&amp;hl=en</a> ID: dzsysjMAAAAJ&hl=en
<b>Vidwan Link / ID</b>	ID: <a href="https://vidwan.inflibnet.ac.in/profile/300569">https://vidwan.inflibnet.ac.in/profile/300569</a>
<b>Research Gate Link / ID</b>	<a href="https://www.researchgate.net/profile/R-Sheeja-2">https://www.researchgate.net/profile/R-Sheeja-2</a>
<b>Scopus Link / ID</b>	ID: <a href="https://www.scopus.com/authid/detail.uri?authorId=57218902257">https://www.scopus.com/authid/detail.uri?authorId=57218902257</a>