

## FACULTY PROFILE

<b>Name of Teaching Staff / RMK ID</b>	Dr P.SHOBHA RANI/T1144			
<b>Designation</b>	Professor			
<b>Department</b>	Artificial Intelligence & Data Science			
<b>Date of Joining the Institution</b>	05.11.2003			
<b>Qualifications</b>	Ph.D.	M.E.	B.E.	
<b>Total Experience</b>	Overall : 29		in RMK : 23	
<b>Papers Published in Journal</b>	Overall :		After Joining RMK : 58	
<b>List of Papers Published</b>	<ul style="list-style-type: none"> <li>❖ Distributed Dos Attacks Detection Based on Machine Learning Techniques in Software Defined Networks P. Shobha Rani, M. Kandan, T. Sathiya, K. Bhanu Rajesh Naidu, M. Maheswari Intelligent Journal of Intelligent systems and application in Engineering, Volume 12, Year 2024, Pages 882 – 893 <a href="https://www.ijisae.org/index.php/IJISAE/article/view/5330">https://www.ijisae.org/index.php/IJISAE/article/view/5330</a></li> <li>❖ Multi agent deep reinforcement learning for resource allocation in container - based clouds environments Nagarajan S.; Rani P. S.; Vinmathi, M. S. ; Subba Reddy V.; Saleth A . L. M.; Abdus Subhahan D. Expert Systems, Volume, Year 2023. <a href="https://doi.org/10.1111/exsy.13362">https://doi.org/10.1111/exsy.13362</a></li> <li>❖ Trust aware cryptographic role based access control scheme for secure cloud data storage Roslin Dayana K.; Shobha Rani P. Automatika, Journal for Control, Measurement, Electronics, Computing and Communications Volume 64, Year 2023, Pages:1072-1079. <a href="https://doi.org/10.1080/00051144.2023.2243144">https://doi.org/10.1080/00051144.2023.2243144</a></li> <li>❖ Data integrity aware system for executing dynamic operations on outsourced cloud data Roslin Dayana K.,Shobha Rani P. Measurement: Sensors, Volume 31, Year 2024. <a href="https://doi.org/10.1016/j.measen.2023.100949">https://doi.org/10.1016/j.measen.2023.100949</a></li> <li>❖ Secure cloud data storage solution with better data accessibility and time efficiency Roslin Dayana K. ,Shobha Rani P. Automatika, Volume 64, Year 2023, Pages 751-758 . <a href="https://doi.org/10.1080/00051144.2023.2213564">https://doi.org/10.1080/00051144.2023.2213564</a></li> <li>❖ Shobha Rani. P, Suresh. R.M. &amp; Sethukarasi. R. 2017, 'Semantic Annotation of Summarized Sensor Data Stream for Effective Query Processing', The Journal of Supercomputing, An International Journal of High-Performance Computer Design, Analysis, and Use, November 2017 ISSN: 0920-8542</li> </ul>			

	<p>(Print) 1573-0484 (Online), vol. 74, no. 255, pp. Annexure I, Impact Factor: 1.326 DOI 10.1007/s11227-017-2183-7.</p> <ul style="list-style-type: none"> <li>❖ Shobha Rani. P, Suresh. R.M. &amp; Sethukarasi. R. 2017, 'Multi-level Semantic Annotation and Unified Data Integration using Semantic Web Ontology in Big data Processing', Cluster Computing the Journal of Networks, Software Tools and Applications, August 2017 ISSN: 1386-7857 (Print) 1573-7543 (Online), vol. 20, no. 77, Annexure I, Impact Factor 2.040 DOI 10.1007/s10586-017-1029-7</li> <li>❖ Determining Intrusion Attacks Against Online Applications Using Cloud- Based Data Security Rekha M, Shoba Rani P EAI Endorsed Transactions on Scalable Information Systems, Volume,Year2024,Pages. <a href="https://doi.org/10.4108/eetsis.5028">https://doi.org/10.4108/eetsis.5028</a></li> <li>❖ Automated Brain Imaging Diagnosis and Classification Model using Rat Swarm Optimization with Deep Learning based Capsule Network Vasantharaj A.; Rani P.S.; Huque S.; Raghuram K.S., Ganeshkumar R., Shafi S.N. International Journal of Image and Graphics, Volume 23, Year 2023. <a href="https://doi.org/10.1142/S0219467822400010">https://doi.org/10.1142/S0219467822400010</a></li> <li>❖ Shobha Rani.P. &amp; M.Rajkumar ,'Implementation and performance evaluation of modulo and Montgomery multipliers in real time application'. International journal of advanced technology in engineering and science ISSN 2348-7550 Volume 4, January 2016</li> <li>❖ Shobha Rani. P &amp; Fathima Sanjas .M, 'Optimizing Evaluated Preference Data in Relational Database Using Query Optimization International Journal of Innovative Research in Science, Engineering and Technology 2014/3/21 ISSN ONLINE(2319- 8753)PRINT(2347-6710) volume 3</li> </ul>	
<b>Papers Presented in Conferences</b> (Scopus / WoS indexed only)	Overall :	After Joining RMK :
<b>Ph.Ds / Projects Guided</b>	Ph.Ds Guided : 1	Student Projects Guided :
<b>Books Published :</b>	Count :5  List :	
<b>Patents</b>	Published Count :17	Granted Count :1
	Patents List  1. MACHINE LEARNING IN IOT FOR INTELLIGENT ROUTING Inventor(s): Dr. P. Ezhumalai Dr. C.S. Anita Dr. D. Rajalakshmi Dr. M. Rajkumar Dr. P. Shobha Rani Ms. K. Balasaranya Ms. J. Geetha Priya Ms. V. Sharmila , Assignee: R.M.D. Engineering College Published:	

	<p>2021-02-05</p> <p>2. A New Model for Investigation of Marine World Inventor(s): Dr. P. Shobha Rani Dr. P. Ezhumalai Dr. M. Rajkumar Ms. K. Balasaranya Ms. J. Geetha Priya Ms. A. Tamizharasi Ms. S. Remya Rose Ms. S. Logeswari Ms. K.J Jausmin , Assignee: R.M.D. Engineering College Published: 2021-04-23</p> <p>3. Time And Topology Structure Based Traffic Flow Prediction With Artificial Intelligence And Neural Network Inventor(s): Dr. P. Shobha Rani, Assignee: Assignee Published</p> <p>4. Augmented Reality Smart Glass for Patient Supervision Inventor(s): A. Tamizharasi, Dr. P. Ezhumalai, Dr. P. Shobharani, S. Logesswari, Assignee: R.M.D Engineering College Published: 2022-02-04</p> <p>5. TUMOUR PREDICTION USING RADIOMICS ALGORITHM Inventor(s): Dr. P. Shobha Rani, Dr. P. Ezhumalai, Dr. M. Rajkumar, Padmapriya, Divya. S K, Assignee: R.M.D.ENGINEERING COLLEGE Published</p> <p>6. IRRIGATION MANAGEMENT SYSTEM AND LEAF DISEASE DETECTION USING IOT Inventor(s): Dr. P. Shobha Rani, Dr. P. Ezhumalai, K. Balasaranya, J. Geetha Priya, Assignee: R.M.D.ENGINEERING COLLEGE Published</p> <p>7. A SMART SECURE,SELF-POWERED LOCATABLE FIXED POD FOR ENABLING LACTATION TO INFANTS Inventor(s): Dr. P.SHOBHA RANI, Assignee: self Published: 2031-01-20</p> <p>8. AN AIR GESTURE BASED SYSTEM FOR COMMUNICATING BETWEEN MULTIPLE IOT DEVICE Inventor(s): Dr. N. Sudhakar Yadav and co, Assignee: Published: 2020-07-31</p> <p>9. An IOT coin operated system for establishing a secure communication channel between plurality of IOT devices Inventor(s): Dr. P. Shobha Rani, Assignee: Published: 2010-07-20</p> <p>10. ENABLING DISTRIBUTED COMPUTING IN MEMORY WITH AN EFFICIENT LOAD BALANCING SCHEME Inventor(s): Dr. P. SHOBHA RANI, Dr. D. Rajalakshmi, Dr. C. S. Anita, Dr. R. Sasi Kumar, Assignee: R.M.D. ENGINEERING COLLEGE Published</p> <p>11. APPROACHES FOR AUTOMATIC MALWARE FAMILY CLASSIFICATION USING SEQUENTIAL DATA FROM TLS-ENCRYPTED TRAFFIC Inventor(s): Dr. P. SHOBHA RANI, Dr. D. Rajalakshmi, Dr. C. S. Anita, Dr. R. Sasi Kumar, Assignee: R.M.D. Engineering College Published: 0000-00-00</p> <p>12. THE INTEGRATION OF A SELF-ATTENTION GRAPH NEURAL NETWORK FOR DATA MINING OF CONSUMPTION BEHAVIOR PATTERNS AMONG COLLEGE STUDENTS Inventor(s): Dr. P. SHOBHA</p>
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	<p>RANI, Dr. D. Rajalakshmi, Dr. C. S. Anita, Dr. R. Sasi Kumar, Assignee: R.M.D. ENGINEERING COLLEGE Published: 0000-00-00</p> <p>13. EMPLOYING A TOP-DOWN SELECTIVE ENSEMBLE MODEL TO OPTIMIZE DOMAIN-SPECIFIC SUPERVISED NATURAL LANGUAGE INTENT CLASSIFICATION Inventor(s): Dr. P. SHOBHA RANI, Dr. D. Rajalakshmi, Dr. C. S. Anita, Dr. R. Sasi Kumar, Assignee: R.M.D. ENGINEERING COLLEGE.</p>
<b>Professional Memberships</b>	Count : 4
	<p>List :</p> <p>1. IAAC, 2022 FRTJQC-CE001083 LIFE MEMBER</p> <p>2. IFERP PM83051297, 2022 LIFE MEMBER</p> <p>3. ISTE, 2019 1174038</p> <p>4. IAENG, 2007 MEMBER 149147</p>
<b>Consultancy Projects Completed</b>	Count : 6
<b>Awards Received</b>	<p>Count :</p> <p>Project Based Billing Role: Developer Year 2023, Amount 60000</p> <p>Online Venture Sales Systems Role: Developer Year 2022, Amount 26000</p> <p>“Stock Maintenance and Verification System” Role: Principal Investigator Year 2022, Amount 25000</p> <p>Website Management Role: website Developer Year 2019, Amount 25000</p> <p>Company Automation and Maintenance Role: Developer Year 2022, Amount 27000</p>
	<p>List :</p> <p>Received Best Exceptional Contribution SPOC Award from Kavach - 2023 Cyber security Hackathon from AICTE .</p> <p>Received Best SPOC Award 2022 from AICTE i4C Block Chain</p>

	<p>Technology .</p> <p>BOS Expert for Vemu Institute of Technology, Kothakota, affiliated to JNTUA</p> <p>Received “Faculty of Excellence” Award from Internal journal of International Journal of MC Square Scientific Research.</p>
<b>Research grants Received</b>	-
<b>Orchid Link / ID</b>	ID : <a href="http://www.orcid.org/0000-0002-5465-8444">http://www.orcid.org/0000-0002-5465-8444</a>
<b>Google Scholar Link / ID</b>	ID : <a href="http://scholar.google.co.in/citations?user=TEbkDWkAAAAJ">http://scholar.google.co.in/citations?user=TEbkDWkAAAAJ</a>
<b>Vidwan Link / ID</b>	ID : <a href="https://vidwan.inflibnet.ac.in/myprofile">https://vidwan.inflibnet.ac.in/myprofile</a>
<b>Research Gate Link / ID</b>	
<b>Scopus Link / ID</b>	ID : <a href="http://www.scopus.com/authid/detail.url?authorId=57226074170">http://www.scopus.com/authid/detail.url?authorId=57226074170</a>