


**Dr. M. DHANALAKSHMI**  
Email : dhanalakshmim.rvitm@rvei.edu.in, Ph: 8073295578

**Faculty:** Engineering and Technology  
**Department:** Computer Science and Engineering

<b>Name</b>	Dr. M Dhanalakshmi	
<b>Present Designation</b>	Professor	
<b>Career Objective</b>	As a passionate and experienced professional looking for a full-time position in <b>Teaching and Research</b> , where I can demonstrate my technical and experimental skills and contribute to the development and better understanding of science and technology and technically contributed to the research development in the field of Green and Cloud Computing, IoT, Artificial Intelligence and Machine Learning. Published more than 50 papers in various scopus international journals/conference and patents	
<b>Academic</b>	B.E(CSE), BMS college of Eng, MTech(CSE),BMS college of Eng, Ph.D(CSE),VTU  <b>Professional Memberships :</b> CSI, ISTE, AICTE, IAENG  <b>Experience :</b> Teaching - 20 YEARS <b>Industry</b> - 5 years	
<b>Area of Interest</b>	Cloud Computing, Machine Learning, Data Analytics, IoT	
	Wireless Sensor Network, Software Engineering, Artificial Intelligence	
<b>Educational Qualification</b>	<b>Ph.D. - Department of Computer Science and Engineering, VTU, Karnataka, Jan'11- Dec'16.</b> <b>Area of research:</b> Green Cloud Computing <b>Thesis:</b> Design and Development of Energy Efficient Technique to Reduce Heat Generation in Cloud Computing	
	<b>M.Tech.-Department of Computer Science and Engineering, VTU,Karnataka,</b>	

**Faculty:** Engineering and Technology  
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	<b>Jan 05 - Feb'07</b>				
	<b>B.E (Computer Science and Engineering)  B.M.S College of Engineering,  Bangalore University,  Karnataka  Jan'94– Dec'98</b>				
<b>Work Experience</b>	<b>From</b>	<b>To</b>	<b>Duration</b>	<b>Designation</b>	<b>Organization</b>
	Oct 2022	Till date	2 years 6 months	Professor	New Horizon College of Engineering, Bangalore
	Feb 2019	Aug 2022	4 years	Professor	MVJ College of Engineering, Bangalore
	Feb 2010	Dec 2017	8 years	Associate Professor	East Point College of Engineering for Women, Bangalore
	Sep 2007	Jan 2010	2 years 4 months	Sr. Lecturer	New Horizon College of Engineering, Bangalore
	Feb 2005	Aug 2007	1 year 6 month	Sr. Lecturer	HKBK College of Engineering, Bangalore
	Mar 2004	Jan 2005	1 year 10 month	Lecturer	Jhana Vikas Institute of Technology, Bangalore
	Sep 2002	Feb 2004	3 years 5 months	Lecturer	BIT TECH
<b>Subject Taught</b>	<b>Undergraduate Program</b>		<b>Post Graduate Program</b>		
	Unix and Shell Programming, DBMS,		Advanced Computer Architecture, Advanced DBMS		
	Programming the WEB, Java		Edge Cloud Computing, Concurrent programming		
	Object Oriented Modelling Design		UX/UI Design Principles		
	System Modelling Simulation		Research Methodology and IPR		
	Programming Languages				

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	Software Engineering, Computer Networks.	
<b>Academic Project Carried out</b>	<i><b>Undergraduate Program</b></i>	<i><b>Post Graduate Program</b></i>
	Intelligent Intravenous Drip Monitoring System Enhancing Accuracy and Real – Time Feedback in Healthcare	General Recommender System using Metaheuristic Algorithms and Cosine Similarity
	UBER Ambulance Next Generation Smart Emergency Response Platform	An Integrated WEB APP to simulate a ML/DL- Based decision support System
<b>Paper Publication Details (Journal and Conference)</b>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi 2. Djabeur Mohamed Seifeddine Zekrifa* , R. Dharma prakash**, <a href="#">et.al</a>, "Optimized Controller Design for Renewable Energy Systems by Using Deep Reinforcement Learning Technique", International journal of Renewable Energy Research, Vol.14, No.1, March, 2024</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, Shasi, S.Saravanan, G.Sujatha, K Tamilarasi, sampath Bhoopathi, "Fog Computing-Based Framework and Solutions for Intelligent Systems: Enabling Autonomy in Vehicles", "Computational Intelligence for Green Cloud Computing and Digital Waste Management", IGI Global Publishing, Feb,2024</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, E. Geetha Rani, Chetana Tukkoji, "Water Management for IoT Based Smart Agriculture Using Machine Learning", Intelligent Control, Robotics and Industrial Automation, Springer October 2024</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, Vyshali Rao et. al. Design of Automatic Greener Healthy System for Data Center using deep learning",15th International Conference Computing Communication Networking Technologies(ICCCNT),2024</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, Sumit Kushwahaa *, <a href="#">et.al</a>," Efficient Liver Disease Diagnosis Using Infrared Image Processing For Enhanced Detection And Monitoring, Journal of Environmental Protection and Ecology 25, No 4, 1266–1278 (2024)Public-Health</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, P. Hosanna Princye, "Expression Analysis Of Death Receptor Ligands Using Biomedical Images", Journal of Environmental Protection and Ecology 25, No 4, 1279–1290 (2024) Public health</li> </ul>		
<ul style="list-style-type: none"> <li>Dr. M. Dhanalakshmi, Subha Devi, M.Thanga., Sowrabha, A., Sowmya, M.L., Lavanya, N.," Anomaly Detection in Video Surveillance",2024 IEEE 9th International Conference for Convergence in Technology, I2CT 2024</li> </ul>		

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<ul style="list-style-type: none"><li>• Dr. M. Dhanalakshmi, Chempavathy B., Varun, M.G., Bohra V., „An Improved Attendance Monitoring System through Facial Recognition using Retina Face Algorithm” 3rd International Conference for Innovation in Technology, INOCON 2024.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M. Dhanalakshmi, Chempavathy B., Varun, M.G., Bohra V., „An Improved Attendance Monitoring System through Facial Recognition using Retina Face Algorithm” 3rd International Conference for Innovation in Technology, INOCON 2024.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M. Dhanalakshmi, Bhavana V, Aishwarya S,“ A Brief survey on facial expression detection”, 10th IEEE Uthar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2023, pp. 110–115</li></ul>
<ul style="list-style-type: none"><li>• Dr.M.Dhanalakshmi,Nayegi,D.S.,Roy,S.,Sanjivani,Darshan,J.,“Vulnerability Analysis Architecture Utilizing Auto Encoding Bayesian Algorithm”,2023 International Conference on Advancement in Computation and Computer Technologies, InCACCT 2023, 2023, pp. 756–761</li></ul>
<ul style="list-style-type: none"><li>• Dr. M. Dhanalakshmi, Rath, S., M., Nageshwaran, G., Rakshith, C., Suriya, R.L,IoT based Vehicle Authentication using Fingerprint and Anti-Theft Detection,14th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2023, 2023, 2023-June, pp. 1396–1403</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Haristha “Methods to Mitigate Attacks during Live Migration of Virtual Machines”, in International conference on innovation in Engineering Technology and sciences” (ICIETS) September 2018 in Mysore 570018.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Vinay Deep, “Secure Protected Live Migration for Energy Efficient Techniques”, International Journal of Engineering Research and Technology. (IJERT) 2019.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Haristha “Methods to Mitigate Attacks during Live Migration of Virtual Machines”, in International conference on innovation in Engineering Technology and sciences” (ICIETS) September 2018 in Mysore 570018.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Anirban Basu, “Energy Efficient Task Provisioning for Distributed Cloud Networks using Meta Heuristic Multidisciplinary Technique”, International Journal of Applied Engineering Research(IJAER)”, (Scopus Index), 2017</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Anirban Basu,(2016)” Energy Efficient Virtual Machine Assignment based on Energy consumption and Resource Utilization in Cloud Network” International Journal of Computer Engineering and Technology(IJCET) (Thomson Reuter’s Research ID: H-3771-2015 Indexed Journal), IAEME. 2016.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Anirban Basu,(2015) “Optimal Energy Efficient Scheduling based on VM Energy Consumption in Cloud”, International Journal of Computer Application(IJCA) 2015.</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi and Anirban Basu,(2015) “Optimal Energy Efficient Scheduling based on VM Energy Consumption in Cloud”, International Journal of Computer Application(IJCA) 2015.</li></ul>
<ul style="list-style-type: none"><li>• <u>Dr. M Dhanalakshmi and Anirban Basu, (2015), “VM Pipelining Technique for Minimizing Power Consumption and Makespan in Cloud”, International Journal of Inventive Engineering and Science (IJIES), Dec 2015.</u></li></ul>

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<ul style="list-style-type: none"><li>• Dr. M Sarat Chandra Prasad, M Dhanalakshmi, M Mohan, B Somasundaram, R Valarmathi, Sampath Boopathi, "Machine Learning-Integrated Sustainable Engineering and Energy Systems: Innovations at the Nexus", Harnessing High-Performance Computing and AI for Environmental Sustainability,2024</li></ul>
<ul style="list-style-type: none"><li>• Dr. M. Dhanalakshmi, Ms.Vyshali Rao KP , Srividya Ramisetty," Reliable Informational Data and Secured Deviation Notification over Networks Using IOT",International Conference on Recent Trends in Electronics and Communication (ICRTEC),2023</li></ul>
<ul style="list-style-type: none"><li>• CR Komala, M Dhanalakshmi, R Gayathri, R Aruna, NV Hemavathi, "VANET Backbone in Data Networking and Block-Chain",Journal of Pharmaceutical Negative Results, Volume 14, Issue 3</li></ul>
<ul style="list-style-type: none"><li>• Rani E Geetha, P Bhuvaneshwari, O Venkata Siva, J Nageswara Rao, Ch Suguna Latha, D Anusha, M Dhana Lakshmi, Krishna K Dhanwand,"Regression algorithm for decision trees and gradient boosting technique for eye-controlled virtual mouse",Intelligent Computation and Analytics on Sustainable Energy and Environment,223-227,CRC Press</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi Rani E Geetha, P Bhuvaneshwari, D Anusha, , D Jayalakshmi, Sethu Madhavi, Ch Suguna Latha, AS Kshama,"<u>Various linear regression models are subjected to a comparison analysis of parameter estimation techniques</u>",Intelligent Computation and Analytics on Sustainable Energy and Environment,244-249,CRC Press</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi,Sanjay Raghavendra, Sri Ch Tanmayi, Srishti Hiremath, "<u>Crowd Counting for Risk Management Using Deep Learning</u>",Advances in Computational Intelligence and Its Applications,264-269,CRC Press</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi ,Arnab Basu, Arpita Kumari, ,"Cyclone Intensity Estimation using Deep Learning and Convolutional Neural Networks", International Conference on Computational Intelligence for Security, Communication and Sustainable Development (CISCS),2024</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi, Bandari Chamaraya Priya, Bommu Tharun Kumar Reddy, A Rohith, Bysani Roopa Reddy,"Block chain Based Inter-Organizational Secure File Sharing System", International Conference on Computational Intelligence for Security, Communication and Sustainable Development (CISCS),2024</li></ul>
<ul style="list-style-type: none"><li>• Dr. M Dhanalakshmi, Vyshali Rao K P, Rakheeba Taseen, Shylaja D N,"Deep Learning-based Modular Framework for Risk Mitigation through Crowd Counting", Fourth International Conference on Multimedia Processing, Communication &amp; Information Technology (MPCIT),2024</li></ul>

**Book Authored**

<b>Author Name</b>	<b>Title of the Book</b>	<b>Publisher</b>	<b>Year</b>
Dr. P. Sathyaraj	Computer Networks and Security	SIP Publisher5	2024

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Dr .L. Thomas	Empirical Software Engineering for Beginners	PKS Publishers	2024
Mr. Sharanabasappa Raikoti	Computer Vision	PKS Publishers	2024
Mr. Narender Chinthamu	The Architectureof Complex Networks	NTL Publishers	2024
<b>Patents</b>			
Patent Registration No.	Name of the Patent Filed	Patent Granted / Journal Published / Filed	
Dr.L. Thomas			
202141011496	Intelligent Agent for Sewage Cleaning and Monitoring using Deep Convolutional Network	Published	
202341020855 A	Design of Automatic Greener Healthy System – Driven for Predicting Minimizing and Reporting the various Harmfull Air Emissions in Data Centres	Published	
202341021437 A	Eliptical Fourier Transform feature Extraction techniques based circular Histogram of oriented gradient for gait biometric recognition process thereof	Published	
425095-001	Piezoelectric Generator Device	Design Granted published	
6357521	Fertilizer Sprayer Machine	Design Granted Published	
<b>Sponsored Research / Funded Projects Carried out / Applied</b>			
Name of Research	Organization	Duration (Between)	
Green computing for Reducing Global Warming for Eco-Friendly Environment	VGST	2016-2018	
Developing and Real Time implementation of Green	SERB	Applied	

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Energy Efficient Smart IoT system for SMART Cities		
Developing and Real Time implementation of Green Energy Efficient Smart IoT system for SMART Cities	DST(women scheme)	Applied
Consultancy Work Carried out		
	PIXEL IT Ltd. 50k sanctioned (For developing Curriculum for workshops, Training module, campus recruitment)	
<b>Personal Details</b>		
Name	: M Dhanalakshmi	
Date of Birth	: January 14 <sup>th</sup> , 1972	
Permanent Address	: No, 70, 5 <sup>th</sup> cross, Venkestwara layout, Munnekolal, Marthahalli Bangalore, 560037	
Communication Address	: No, 70, 5 <sup>th</sup> cross, Venkestwara layout, Munnekolal, Marthahalli Bangalore, 560037	
Email	mdhanalakshmi1472@gmail.com	
Phone no	Ph: +91 9008308615	
Personal	Married, Female, Indian	
Languages known	English, Kannada,Hindi	