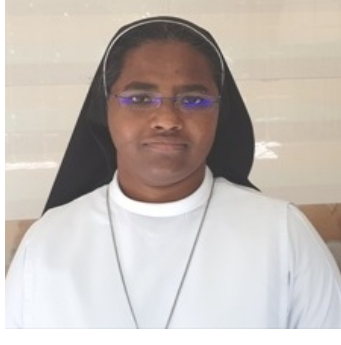


Sr. B. Arockia Valanrani M.C.A.,M.Phil.,B.Ed., (Ph.D.)

Department	Computer Science			
Designation	Assistant Professor			
Institution	St.Joseph's College For Women, Kangeyam Road Tiruppur			
e-Mail	srvalanrani09@gmail.com			
Experience	Teaching - Years			
	9			
Specialization	Image Processing, Deep Learning,			
Publications		Proceedings	Journals	Books
	Regional			
	State		1	1
	National	3	5	
	International		6	
Conference / Seminar / Symposia / Workshop		State	National	International
	Organised			
	Attended	10	5	11
International Conferences / National Conferences / Seminars Attended:		Number of Publications (International/National):		
1. One day International Workshop on “Internet of Things” Organized by Department of Mathematics at St. Joseph’s College of Arts and Science for Women, Hosur on 11 th February 2023.		1. B. Arockia Valanrani, S. Devi Suganya “ Lightweight MIDepnet: An Efficient Deep Learning Approach for Myocardial Infarction Detection Using Enhanced Image Segmentation ” International Research Journal of Multidisciplinary Technovation (IRJMT) - (Indexed in Scopus Q3 Journal)		
2. One day International Conference on “Second International Conference on Prominent Challenges in Information Technology ICPCIT 2023” Organized by Department of Computer Science at St. Joseph’s College of Arts and Science for Women, Hosur on 10 th February 2023.		2. B. Arockia Valanrani, S. Devi Suganya “ Tunicate swarm intelligence self-stabilized deep neural network model in CNN for improving myocardial infarction detection ” (Publisher : IEEE, Indexed in Scopus) 4 th International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2025). Pages : 390 – 397, Publisher : IEEE. https://ieeexplore.ieee.org/document/11331071 DOI:10.1109/ICAAIC64647.2025.11331071		
3. Presented a paper named “A Survey on Deep Learning Techniques, Architectures, Applications and Algorithms” in the Inter National		3. Improving Myocardial Infarction Detection from Echo Images using Contrastive Guided Adversarial Denoising Diffusion Probabilistic. International Journal of Engineering Trends and Technology, Volume 72 Issue 12, 285-297,		

Conference on Machine Intelligence and Green Computing at Kalaingar Karunanidhi Institute of Technology, Coimbatore on 10th & 11th December 2021. 4. One day International Conference on “The Future of Computing - Cloud and Fog Computing” organized by Department of Computer Application at Noorul Islam College, Kumaracoil on 29th May 2020. 5. One day International Conference on “Prominent Challenges in Information Technology” organized by Department of Computer Science at St. Joseph’s College of Arts and Science for Women, Hosur on January 24th 2020. 6. Presented a paper named “A Survey of Securing Data using Fingerprint Authentication” in the National Conference on Trends in Advanced Computing and Applications at Adhiyamaan College of Engineering, Hosur on 18th March 2019. 7. Presented a paper named “A Survey of Steganography with its techniques” in the National Conference “Prominent Challenges in Information Technology” at St. Joseph’s College Hosur on September 18th 2018. 8. Presented a paper named “ A review of Video Steganography Using LSB Methodology” in the National conference on “Emerging trends in Pure and Applied Mathematics” in St. Joseph’s college, Hosur on December 13th 2017 9. Presented a paper “ A review on Cloud Computing System” in the International seminar organized by Kongu college of Arts and Science, Morappur on September 15th 2017	December 2024 ISSN: 2231-5381, DOI:10.14445/22315381/IJETT-V72I12P124.pdf (Indexed in Q3 Journal) 4. Predicting Cardiac Issues From Echocardiograms: A Literature Review Using Deep Learning And Machine Learning Techniques, International Journal of Advanced Research in Computer Science (IJARCS) ISSN. 0976-5697, Volume 15, No. 1, January-February 2024, Page No: 5 – 13 (Peer Reviewed Journal, Indexed in Google Scholar) DOI: https://ijarcs.info/index.php/Ijarcs/article/view/7040 5. Arockiavalanrani. B, Josephine reena mary, I. Anusha Prem, P. Kalpana. “Crop Yield Prediction Using Machine Learning”, Data Analytics and Artificial Intelligence, (ISSN: 2583-5564), Volume 2, Issue 1, 2023, Pages 16-20, DOI: https://doi.org/10.46632/jdaai/2/1/3. 6. Arockiavalanrani. B, Josephine reena mary, “Heart Disease Detection -A Machine Learning Approach”, Data Analytics and Artificial Intelligence, (ISBN: 978-81-948459-4-2), Volume 3, Issue 2, 2023, Pages 59 - 63, DOI: https://doi.org/10.46632/daai/3/2/12. 7. Arockiavalanrani. B, Brindha. S, “ Heart Disease Transparency Analysis using Machine Learning Algorithms”, Industrial Engineering Journal - an UGC Indexed Journal (ISSN: 0970-2555), November 2022, Pages 990-1002. 8. Arockiavalanrani. B, Divyaprabha. K, “ Heart Disease Prediction using Machine Learning”, Data Analytics and Artificial Intelligence, (ISBN: 978-81-948459-4-2), Volume 2, Issue 5, 2022, Pages 118-121. 9. Arockiavalanrani. B, Josephine reena mary, “ A Review on Machine Learning”, Data Analytics and Artificial Intelligence, (ISBN: 978-81-948459-4-2), Volume 2, Issue 5, 2022, Pages 258-261. 10. Arockiavalanrani. B, “A Survey of Steganography with its Techniques”, International Journal of Trend in Research and Development, ISSN: 2394-9333, Special Issue NCPCIT- 18, September 2018, Pg No : 88 - 91. 11. Arockiavalanrani. B, “A review of Video Steganography Using LSB methodology” International Journal for Research in Applied Science and Engineering Technology, ISSN: 2321-9653, ETPAM - 2018, March 2018,
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Recognition as award/ Fellowship	➤ Received the Certificate of Achievement ISO 9001:2015 Internal Auditor Training ➤ Published a book titled “Visual Basic 6.0” by Charulatha Publications, Chennai on 22.12.2022. (ISBN – 13: 978-93-5577-326-5). ➤ Received the Best Research Scholar Award from Novel Research Academy, Puducherry, India, Registered under the Ministry of MSME, Government of India on November 2022. (Permalink: http://www.newswertia.com/certificates/certificate/ms-b-a-rockia-valan-rani/) ➤ Completed five days National Level Faculty Development Programme on “Using Innovative Tools to Teach Machine Learning” organized by Department of Computer Science, Jyothi Nivas College Autonomous, Bengaluru from 11.10.2022 to 15.10.2022. ➤ Received the Best Faculty Award for the academic excellence and extraordinary contribution in enhancing the teaching and learning processes having adjudged during academic year 2020 – 2021 by Nature Science Foundation, Coimbatore, Tamilnadu, India on September 2021. (Reference No: NSF/BFA/2021/32) ➤ Received the Honorary Award for the Lighting the Lamp Project by Lion’s Club of Hosur on August 2019.
Membership	
Others	