

FACULTY PROFILE

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| Name of Teaching Staff / RMK ID | Dr. Lakshmi Haritha M / T1095 | | |  |
| Designation | Associate Professor | | | |
| Department | ECE | | | |
| Date of Joining the Institution | 17-08-2022 | | | |
| Qualifications | B.Tech | M.Tech | Ph.D | |
| Total Experience | Overall : 4 Year 3 Months | | in RMK : 3 Year 8 Months | |
| Papers Published in Journal | Overall : 5 | | After Joining RMK : 0 | |
| List of Papers Published | <ol style="list-style-type: none"> 1. Lakshmi Haritha Medida and K. Ramani, “<i>An Optimized e-Lecture Video Search and Indexing framework,</i>” International Journal of Computer Science and Network Security, August 2021, Vol. 21, No. 4, pp. 87–96. doi: 10.22937/IJCSNS.2021.21.8.12 2. Lakshmi Haritha Medida and K. Ramani, “<i>Impact of Deep Learning on Localizing and Recognizing Handwritten Text in Lecture Videos,</i>” International Journal of Advanced Computer Science and Applications, vol. 12, no. 4, pp. 336–344, April 2021, doi: 10.14569/ijacsa.2021.0120442. 3. Lakshmi Haritha Medida and K. Ramani, “<i>An Optimized E-Lecture Video Retrieval based on Machine Learning Classification,</i>” International Journal of Engineering and Advanced Technology, August 2019, Vol. 8, No. 6, pp. 4820–4827. doi: 10.35940/ijeat.F9114.088619. 4. Lakshmi Haritha Medida and K. Ramani, “<i>A Comparative Analysis of Datasets Classification using Machine Learning Techniques,</i>” International Journal of Innovations & Advancement in Computer Science, April 2018, Vol. 7, No. 4, pp 518-525. 5. Lakshmi Haritha Medida, “<i>Survey on Semantic Indexing of</i> | | | |

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| | <i>High Dimensional Data with Deep Learning Techniques,” i-manager’s Journal on Software Engineering, December 2016, Vol. 11, No. 2, pp 32-43.</i> | |
| Papers Presented in Conferences (Scopus / WoS indexed only) | Overall : 4 | After Joining RMK : 3 |
| Ph.Ds / Projects Guided | Ph.Ds Guided : 0 | Student Projects Guided : 13 |
| Books Published : | Count : 11 | |
| | <p>Book Chapter</p> <ol style="list-style-type: none"> Medida, Lakshmi Haritha, & Kumar, G. L. (2025). Revolutionizing Oil and Gas Exploration: The Impact of Automation Technologies. In V. Abdullayev & A. Khang (Eds.), <i>Revolutionizing AI and Robotics in the Oil and Gas Industry</i> (pp. 165-192). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3693-8156-4.ch008. ISBN13: 9798369381564 ISBN13 Softcover: 9798369381571 EISBN13: 9798369381588. Medida, Lakshmi Haritha, & Kumar, G. L. (2025). “Harnessing Artificial Intelligence and Data Science for Sustainable Water Management and Irrigation”. In M. Syafrudin, N. Fitriyani, & M. Anshari (Eds.), <i>Artificial Intelligence and Data Science for Sustainability: Applications and Methods</i> (pp. 323-346). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3693-6829-9.ch011. ISBN13: 9798369368299 ISBN13 Softcover: 9798369368305 EISBN13: 9798369368312. Medida, Lakshmi Haritha, Kumar, G. L., & Prasad, M. (2025). “Transformative AIoT Applications in Medicine: Real-World Case Studies.” In V. Sarveshwaran, K. Periyaswami, & K. Yu (Eds.), <i>Future Innovations in the Convergence of AI and Internet of Things in Medicine</i> (pp. 367-406). IGI Global Scientific Publishing. https://doi.org/10.4018/979-8-3693-7703-1.ch014. ISBN13: 9798369377031 ISBN13 Softcover: 9798369377048 EISBN13: 9798369377055. | |

4. **Medida, Lakshmi Haritha**, and Kumar. " Understanding the Internet of Behavior: Bridging Data and Human Actions." Mapping Human Data and Behavior With the Internet of Behavior (IoB), edited by Gunjan Chhabra, et al., IGI Global, 2025, pp. 21-42. <https://doi.org/10.4018/979-8-3693-7545-7.ch002>. ISBN13: 9798369375457 | ISBN13 Softcover: 9798369375464 | EISBN13: 9798369375471
5. **Medida, Lakshmi Haritha**, and Kumar. "Addressing Challenges in Data Analytics: A Comprehensive Review and Proposed Solutions." Critical Approaches to Data Engineering Systems and Analysis, edited by Abhijit Bora, et al., IGI Global, 2024, pp. 16-33. <https://doi.org/10.4018/979-8-3693-2260-4.ch002>. ISBN13: 9798369322604 | EISBN13: 9798369322611
6. Renugadevi, R., and **Lakshmi Haritha Medida**. "Artificial Intelligence and IoT-Based Disaster Management System." Predicting Natural Disasters with AI and Machine Learning, edited by D. Satishkumar and M. Sivaraja, IGI Global, 2024, pp. 135-146. <https://doi.org/10.4018/979-8-3693-2280-2.ch006> ISBN13: 9798369322802 | EISBN13: 9798369322819
7. Kasarapu Ramani; G. B. Hima Bindu; **M. L. Haritha**; N. Pushpa Latha; I. Suneetha " IoT Protocols: A Review." Innovations in Computational Intelligence, Big Data Analytics, and Internet of Things, edited by Sam Goundar; J. Avanija; Gurram Sunitha; K. Reddy Madhavi, Emerald Publishing Limited, March 2024. DOI: <https://doi.org/10.1108/979-8-88730-561-520251011> ISBN electronic: 979-8-88730-561-5 ISBN print: 979-8-88730-560-8
8. **Medida, Lakshmi Haritha**, et al. " Text classification using similarity measure and fuzzy function concept analysis." Artificial Intelligence, Blockchain, Computing and Security Volume 2, edited by Arvind Dagur, et al., CRC Press, 2023,

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| | <p>pp 554-558. ISBN: 9781032684994</p> <p>9. Medida, Lakshmi Haritha, et al. "Machine Learning Techniques for Predicting Pregnancy Complications." Predicting Pregnancy Complications Through Artificial Intelligence and Machine Learning, edited by D. Satish Kumar, IGI Global, 2023, pp. 116-125. https://doi.org/10.4018/978-1-6684-8974-1.ch008. ISBN-13: 9781668489741, ISBN-10: 1668489740</p> <p>10. Medida, Lakshmi Haritha, et al. "Predictive Analytics for High-Tech Agriculture." Handbook of Research on AI-Equipped IoT Applications in High-Tech Agriculture, edited by Alex Khang, IGI Global, 2023, pp. 336-346. https://doi.org/10.4018/978-1-6684-9231-4.ch019. ISBN-13: 9781668492314, ISBN-10: 1668492318</p> <p>11. Lakshmi Haritha Medida and K. Ramani, "<i>Deep Learning and it's Applications: A Real-World Perspective</i>", pp 149-166, In Deep Learning and Edge Computing Solutions for High Performance Computing, Springer, January 2021. https://doi.org/10.1007/978-3-030-60265-9_10</p> | |
| <p>Patents</p> | <p>Published Count : 6</p> | <p>Granted Count : 0</p> |
| | <ol style="list-style-type: none"> 1. KNOWLEDGE-BASED DISEASE PREDICTION SYSTEM USING FUZZY RULES, DATA MINING, AND NOISE REDUCTION TECHNIQUES 2. SYSTEM AND METHODS FOR SHARING MACHINE LEARNING FUNCTIONALITY BETWEEN CLOUD COMPUTING AND IOT NETWORKS 3. AI AND MACHINE LEARNING BASED HUMAN ACTION RECOGNITION SYSTEM USING MOBILE SENSOR FUSION 4. AN IOT BASED SYSTEMS FOR PULMONARY ARTERY PRESSURE AND CARDIAC SYNCHRONIZATION MONITORING 5. MOBILE AI CHALLENGE QUICK AND ACCURATE QUANTIZED CAMERA SCENE DETECTION ON SMARTPHONES | |

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| | 6. SYSTEM FOR LOAD BALANCING IN CLOUD COMPUTING USING MACHINE LEARNING |
| Professional Memberships | Count : 1 |
| | 1. ISTE Life Membership |
| Consultancy Projects Completed | Count : 5 |
| Awards Received | Count : 2 |
| | 1. IEI Academic Excellence Award 2023 2. IEI Best Faculty Advisor Award 2023 |
| Research grants Received | --- |
| Orchid Link / ID | ID : 0000-0002-6400-8998 |
| Google Scholar Link / ID | ID : t0UPzRwAAAAJ |
| Vidwan Link / ID | ID : 305355 |
| Research Gate Link / ID | https://www.researchgate.net/profile/Lakshmi-Medida |
| Scopus Link / ID | ID : 57210970304 |