

Dr. G. Ramesh

Associate Professor



Education Qualifications: Doctor of Philosophy (CSE)
Specialization: Software Engineering

ADDRESS:

- D– Block -Room No. 305

JNTUH ID:

7990-180416-105441

EMAIL:

gramesh_it@mgit.ac.in

DATE OF JOINING:

01-06-2026

EXPERIENCE - 17 Years

- Teaching - 17
- Research - 08
- Industry -
- Others –

SUMMARY:

- Publications - 50
- Conferences - 25
- Patents – 08
- Books – 02
- Honors/Awards - 05

EVENTS:

- Organized - 08
- Attended - 20

LET'S MEET ON SOCIAL:

- <https://www.scopus.com/authid/detail.uri?authorId=57209469953>
- <https://www.webofscience.com/wos/author/record/AAH-9223-2019>

Membership of Professional Bodies:

1. CSI - Lifetime Member - 5022250079.
2. International Association of Engineers (IAENG) Member – 175266.

Responsibilities Held at Institution Level:

1. Dean, Advanced Academic Center (AAC), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – October 2021 to August 2023.
2. Research & Development Coordinator, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – June 2023 to May 2026.
3. Single Point of Contact (SPOC), B.Tech (Computer Science and Business Systems) under MoU with Tata Consultancy Services (TCS), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – August 2020 to May 2026.

Responsibilities Held at Department Level:

1. M. Tech (Software Engineering) Coordinator, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – April 2018 to March 2021.
2. Coordinator, B.Tech (Computer Science and Business Systems), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – August 2020 to September 2021.
3. NAAC 6 Criteria Coordinator, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – September 2018 to August 2021.
4. Member Board of Studies for B. Tech-Computer Science and Business Systems, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad – August 2020 to May 2026.

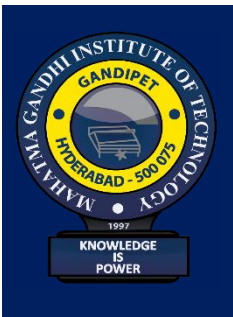
Research Guidance:

1. Supervising one Ph.D. scholar admitted to Koneru Lakshmaiah Education Foundation (KLEF/KLU), Vijayawada, Andhra Pradesh.

Honors/Awards Received:

1. Best Researcher Award, GRIET, Hyderabad (Dec 2022)
2. Best Researcher Award, GRIET, Hyderabad (Dec 2023)
3. Best Researcher Award, GRIET, Hyderabad (Nov 2024)
4. Best Researcher Award, GRIET, Hyderabad (Dec 2025)
5. Emerging Scholar in Teaching Excellence Award, AIMER Society, Hyderabad (02 Mar 2024)

Courses Handled at Under Graduate /Post Graduate Level:



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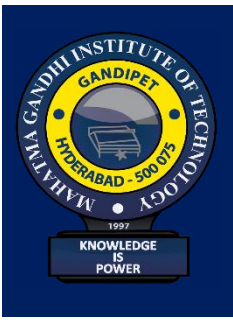
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- <https://www.webofscience.com/wos/author/record/AAH-9223-2019>

1. **UG:** Operating Systems, Computer Networks, Software Engineering, Information Security, Object Oriented Software Engineering, Object Oriented Analysis and Design, Agile Methodologies
2. **PG:** Model Driven Software Engineering, Secure Software Engineering, Middleware Technologies, Software Metrics

Publications:

1. Kolla, M., Madapuri, R., Kandukuri, P. **Ramesh G** . Optimized cortical EEG modeling for Parkinson disease diagnosis with snow Shepherd Stride tuning mechanism. Cogn Neurodyn 20, 47 (2026). <https://doi.org/10.1007/s11571-025-10406-y> (SCIE & Scopus).
2. **Ramesh G**, Quantitative Analysis Of Micro-Expression Phenotypes Via Cumulated Optical Flow And Lbp-Top Under Varying Environmental Constraints. (2026). Genetics and Molecular Research. <https://doi.org/10.4238/k94rcc40>. (ESCI & Scopus).
3. Surekha P, Sagar PV, **Ramesh G**. Improving Micro-Expression Recognition With An Enhanced Descriptor Combining Gw-Lbp, Tgmh, And Wt. Archives for Technical Sciences. 2025 Dec 30;3(34):1172–81. (ESCI & Scopus)
4. Gupta, P., Gupta, S., Goel, L., Agarwal, A. K., Singh, A., **Ramesh, G**. Hybrid Convolutional Neural Network and Generative Adversarial Network Framework for Robust Deepfake Detection: Advancing Accuracy, Scalability, and Multimodal Integration. J. Vis. Exp. (222), e68426, doi:10.3791/68426 (2025). (SCI & Scopus).
5. **G. Ramesh**, A. K. Budati, S. Islam, L. A. Maghrabi and A. Al-Atwai, "Artificial Intelligence Enabled Future Wireless Electric Vehicles with Multi-Model Learning and Decision Making Models," in Tsinghua Science and Technology, vol. 29, no. 6, pp. 1776-1784, December 2024. (SCI & Scopus).
6. Banothu, S., Madhavi, K., Kumar, K. M. V. M., **Gajula, R.**, Mallikarjuna Rao, C., Dixit, S., & Chhetri, A. (2024). Plant disease identification and pesticides recommendation using Dense Net. Cogent Engineering, 11(1). <https://doi.org/10.1080/23311916.2024.2353080>. (ESCI & Scopus)
7. Reddy, N.M., Budati, A.K., Islam, S. **G. Ramesh** et al. Enhanced Elliptic Curve- Diffie Hellman Technique with Bigdata Analytics for Satellite Image Security Enhancement in Internet of Things Systems. Earth Sci Inform 17, 711–723 (2024). <https://doi.org/10.1007/s12145-023-01194-2> (SCIE & Scopus).
8. **G. Ramesh**, et al., Computational intelligence techniques for energy efficient routing protocols in wireless sensor networks: A critique, Transactions on Emerging Telecommunications Technologies, Volume35, Issue1, January 2024. DOI: 10.1002/ett.4888. (SCIE & Scopus).
9. **Ramesh, G.**, Gorantla, Venkata Ashok K & Gude, Venkataramaiah(2023) A hybrid methodology with learning based approach for protecting systems from DDoS attacks, Journal of Discrete Mathematical Sciences and Cryptography, 26:5, 1317–1325. (ESCI & Scopus)
10. Reddy, N.M., **Ramesh, G.**, Kasturi, S.B. et al. Secure data storage and retrieval system using hybridization of orthogonal knowledge swarm optimization and oblique cryptography algorithm in cloud. Appl Nanosci 13, 2449–2461 (2023). (SCIE & Scopus).
11. Parameswari, D.V.L., Rao, C.M., Kalyani, D. **Ramesh, G** et al. Mining images of high spatial resolution in agricultural environments. Appl Nanosci 13, 1029–1043(2023). <https://doi.org/10.1007/s13204-021-01969-3>. (SCIE & Scopus).



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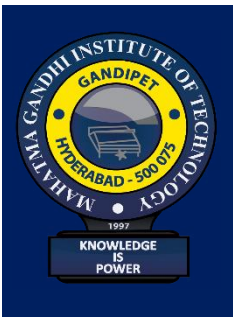
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12. Surekha, P., Sagar, P. V. ., & **Ramesh, G.** (2023). Micro Expression Spotting through Appearance Based Descriptor and Distance Analysis. International Journal on Recent and Innovation Trends in Computing and Communication, 11(8s), 10–19. (Scopus).
13. Moorthy, T. V. K. ., Bachu, S. ., **Ramesh, G. .**, Reddy, D. R. ., Krishn, S. V. ., & Dharani, M. (2023). 5G Enabled Moving Robot Captured Image Encryption with Principal Component Analysis Method. International Journal on Recent and Innovation Trends in Computing and Communication, 11(8), 252–258.
14. **G. Ramesh**, et al “Beneficial Image Preprocessing by Contrast Enhancement. Technique for SEM Images”, IJEMS Vol.29(6) [December 2022], NIScPR-CSIR,India. (SCI & Scopus).
15. **Ramesh, G.**, Sharma, A., Lalitha Parameswari, D. V., Mallikarjuna Rao, Ch., & Somasekar, J. (2022). Blockchain in healthcare : Moving towards a methodological framework for protecting Biomedical Databases. Journal of Discrete Mathematical Sciences and Cryptography, 25(4), 891–901. (ESCI & Scopus)
16. E. Poornima, Srinivasulu Sirisala, P. Dileep Kumar Reddy, & **G. Ramesh**. (2022). A Generic Framework for Sharing Data Using Attribute Based Cryptography in Hybrid Cloud. International Journal of Intelligent Systems and Applications in Engineering, 10(4), 634–640. (Scopus).
17. **Dr. Gajula Ramesh**, Dr. D. William Albert, Dr. Gandikota Ramu. (2020). Detection of Plant Diseases by analyzing the Texture of Leaf using ANN Classifier. International Journal of Advanced Science and Technology, 29(8s), 1656 - 1664.
18. J. Somasekar, **G. Ramesh**, Gandikota Ramu, P. Dileep Kumar Reddy, B. Eswara Reddy, Ching-Hao Lai, A dataset for automatic contrast enhancement of microscopic malaria infected blood RGB images, Data in Brief, Volume 27, 2019, 104643, ISSN 2352-3409. (ESCI & Scopus)
19. Kumar, S.K., Reddy, P.D.K., **Ramesh, G.**, Maddumala, V.R. (2019). Image transformation technique using steganography methods using LWT technique. Traitement du Signal, Vol. 36, No. 3, pp. 233-237. (SCIE & Scopus).
20. **Dr. Gajula Ramesh**, Dr.J.Somasekar, Dr. Karanam Madhavi, Dr. Gandikota Ramu, Best keyword set recommendations for building service-based systems International Journal of Scientific and Technology Research, volume 8, issue 10, October, 2019. (Scopus).
21. **Ramesh, G** and Dr. K. Madhavi (2019). Summarizing Product Reviews using NLP based Text Summarization”, International Journal of Scientific & Technology Research, volume 8, issue 10, October, 2019. (Scopus).
22. Ch. Mallikarjuna Rao, **G. Ramesh**, D. V. Lalitha Parameswari Karanam Madhavi, K. Sudheer Babu “Feature Selection Based Supervised Learning Method for Network Intrusion Detection”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-1, May 2019. (Scopus)
23. Karanam Madhavi, G. Bhavyasri, **G. Ramesh**, Ch. Mallikarjuna Rao, Lavanya Gottemukkala, “Load effectiveness on coverage-technique for test case prioritization in regression testing”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-7 May, 2019. (Scopus)
24. **G. Ramesh** and Ch. Mallikarjuna Rao, “Code-Smells Identification by using PSO Approach” International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7 Issue-4, November 2018. (Scopus).



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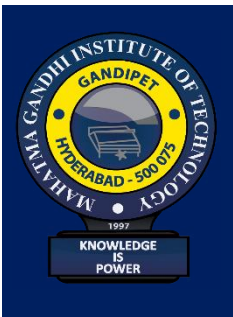
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Conferences:

1. **G. Ramesh**, S. Maddala, D. Pulluru, P. R. Reddygari, and M. Sunitha, "Machine Learning for Space Safety: Predicting Debris Motion and Evaluating Collision Risks," 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), Erode, India, 2025, pp. 1563-1567, doi: 10.1109/ICCMC65190.2025.11140634.
2. **G. Ramesh**, N. V. Sivareddy, L. H. Jasim, P. Murugeswari, B. Kumaraswamy and M. L., "AI-optimized data Lakes for Real-Time Big Data Management and Autonomous Query Optimization," 2025 International Conference on Metaverse and Current Trends in Computing (ICMCTC), Subang Jaya, Malaysia, 2025, pp. 1-5, doi: 10.1109/ICMCTC62214.2025.11196397.
3. H. Chilupuri, **G. Ramesh**, J. Praveen and V. Gude, "AI-Powered Advertisement Design: A PIL-Based Approach for Quality and Performance Analysis," 2025 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), Bangalore, India, 2025, pp. 1-6, doi: 10.1109/IITCEE64140.2025.10915297.
4. G. Ramesh, V. S. Kumar, K. K. Dixit, Z. Alsalami, T. C. C. F and D. Sam, "Cross-Layer Optimization for Enhancing QoS in Software-Defined Vehicular Networks," 2024 International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, India, 2024, pp. 957-961, doi: 10.1109/ICICAT62666.2024.10923442.
5. N. S. Varma Indukuri, S. Reddy Eguram, A. Nichena, S. Ulvalapudi and R. Gajula, "Blockchain-based Voting System in a Democratic Environment," 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023, pp. 1312-1316, doi: 10.1109/ICAISS58487.2023.10250609.
6. V. Tejaswini Priyanka, Y. Reshma Reddy, D. Vajja, **G. Ramesh** and S. Gomathy, "A Novel Emotion based Music Recommendation System using CNN," 2023 7th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2023, pp. 592-596, doi: 10.1109/ICICCS56967.2023.10142330.
7. J. Potluri, H. Gummadi, K. Alladi and **G. Ramesh**, "Securing Intellectual Property in the Digital Age through Blockchain Innovation," 2023 Global Conference on Information Technologies and Communications (GCITC), Bangalore, India, 2023, pp. 1-5, doi: 10.1109/GCITC60406.2023.10426242.
8. S. R. Komatireddy, K. Meghana, V. Gude and **G. Ramesh**, "Facial Shape Analysis and Accessory Recommendation: A Human-Centric AI Approach," 2023 3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA), Bengaluru, India, 2023, pp. 182-191, doi: 10.1109/ICIMIA60377.2023.10426487.
9. P. Kandukuri, B. S. Sowrab, **G. Ramesh** and K. K. Singamaneni, "Paddy Leaf Disease Identification on Infrared Images based on CNN with Auto Encoders," 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023, pp. 277-281, doi: 10.1109/ICAISS58487.2023.10250752.
10. J. Potluri, H. Gummadi, M. Bhogi, Y. S. Katta, **G. Ramesh** and T. S. Meghana Reddy, "Unveiling Covert Conversational Agents: Enhancing Insight, Archives, and Dialog Acts with ChatGPT," 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 766-772, doi: 10.1109/I-SMAC58438.2023.10290195.
11. **G. Ramesh**, Karanam Madhavi, P. Jaya Prakash Reddy, Abhiram Pedamallu and Raj Kumar, Automated Opencv-Based Presentation



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Controller, E3S Web Conf., 430 (2023) 01061, DOI: <https://doi.org/10.1051/e3sconf/202343001061>.

12. B.V.N. Prasad Paruchuri, Madhu Latha Veerapaneni, **G. Ramesh**, Vinay Kumar Awaar and Abhilasha Chauhan, Beyond Binary: The Capabilities of Classical and Quantum Computing for Securing Data Transmission, E3S Web Conf., 430 (2023) 01073, DOI: <https://doi.org/10.1051/e3sconf/202343001073>.
13. K. Shyam Sunder Reddy, **G. Ramesh**, J. Praveen, P. Surekha and Ayushi Sharma, A Real-time Automated System for Object Detection and Facial Recognition, E3S Web Conf., 430 (2023) 01076, DOI: <https://doi.org/10.1051/e3sconf/202343001076>.
14. **Ramesh Gajula**, G.H.S. Sathwik Rudraraju, Pavan Teja Suppala, K.N.D.V. Surya Raghav, Babita Rani Randwal and J. Praveen, Autonomous Driving: Enhancing Mileage, Road Safety with AI, E3S Web Conf., 430 (2023) 01060, DOI: <https://doi.org/10.1051/e3sconf/202343001060>.
15. R. Boorugu and **G. Ramesh**, "A Survey on NLP based Text Summarization for Summarizing Product Reviews," 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2020, pp. 352-356, doi: 10.1109/ICIRCA48905.2020.9183355.

Patents:

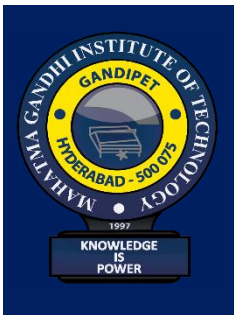
1. An Indian patent Published a patent titled "Nirvachana - A Biometrically Authenticated Pre- Voting System, Application No.202641010675, publication date 13/02/2026.
2. An Indian patent Published a patent titled "IoT based Smart Parking Management System, Application No. 202641025414, publication date 13/03/2026.
3. An Indian patent Published a patent titled "Multimedia Mining Assisted Macro and Micro Expressions Recognition Through Machine Learning", Application No.202641029689 A, publication date 27-03- 2026.
4. An Indian patent Published a patent titled "Smart Glasses for Visually Impaired Individuals", Application No. 202541000874 A, publication date 10-01-2025.
5. An Indian patent Published a patent titled "Blockchain based System to Manage Patient Data in Healthcare Industry", Application No. 202441080843, A , publication date 1-11-2024.
6. An Indian patent published with the title of invention "Sonification for Data Base Administrators (SONIDBA)", Application No. 202041026317, publication date. 03/07/2020.

Research & Consultancy:

1. Title of the Project Received "AI Framework for Action and Gesture Recognition Framework for Children Diagnosed with Cerebral Palsy", from **MSME, GoI** with a Grant of **Rs. 15,00,000/-**, July 2022.
2. Title of the Consultancy Project Received "Artificial Intelligence (AI) Framework for Autonomous and Electric Vehicles", from Ample Auto Tech PVT Ltd, Delhi, with a Grant of **Rs. 10, 62, 380/-**, August 2021.

No. of Books/Chapter Published with details:

1. **Ramesh, G.**, Reddy, K.S.S., Ramu, G. and Somasekar, J. (2023). An Empirical Study on Discovering Software Bugs Using Machine Learning Techniques. In: Buyya, R., Hernandez, S.M., Kovvur, R.M.R., Sarma, T.H.



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(eds) Computational Intelligence and Data Analytics. Lecture Notes on Data Engineering and Communications Technologies, vol 142. Springer, Singapore. https://doi.org/10.1007/978-981-19-3391-2_14.

2. **G. Ramesh**, B. Anil Kumar and J. Praveen, Design and Implementation of an IoT-Integrated Smart Home System with End-To-End Security using Blockchain Technology, Blockchain Technology for IoT and Wireless Communications, 2023. <https://doi.org/10.1201/9781003269991>, eBook ISBN9781003269991, CRC Press. (Scopus).
3. **Ramesh G.** (2021) Application and Analysis of Phishing Website Detection in Machine Learning and Neural Networks. In: Luhach A.K., Jat D.S., Bin Ghazali K.H., Gao XZ., Lingras P. (eds) Advanced Informatics for Computing Research. ICAICR 2020. Communications in Computer and Information Science, vol 1394. Springer, Singapore. https://doi.org/10.1007/978-981-16-3653-0_23. (Scopus).
4. **Gajula Ramesh**, Anusha Anugu, Karanam Madhavi, P. Surekha, Automated Identification and Classification of Blur Images, Duplicate Images Using Open CV. In: Luhach A.K., Jat D.S., Bin Ghazali K.H., Gao XZ., Lingras P. (eds) Advanced Informatics for Computing Research. ICAICR 2020. Communications in Computer and Information Science, vol 1393. Springer, Singapore, (2020). https://doi.org/10.1007/978-981-16-3660-8_52. (Scopus).
5. Krishna Chythanya, N., Madhavi, K., **Ramesh, G.** (2021). A Machine Learning Enabled IoT Device to Combat Elephant Mortality on Railway Tracks. In: Raj, J.S., Ilyasu, A.M., Bestak, R., Baig, Z.A. (eds) Innovative Data Communication Technologies and Application. Lecture Notes on Data Engineering and Communications Technologies, vol 59. Springer, Singapore. https://doi.org/10.1007/978-981-15-9651-3_44.
6. Edited the book titled “Blockchain Technology for IoT and Wireless Communications” published by CRC Press, 2024, ISBN: 9781032217857.

Events Organized:

Conferences:

1. Organised International Conference on Innovative Computing, Informatics and Advanced Communication Systems (ICICIA-2022), 25–26 March 2022, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad.Two

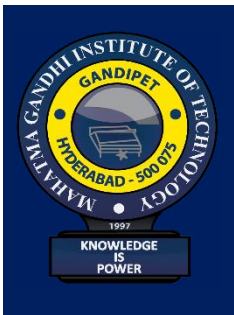
FDPs/STTPs /Workshops/ Webinars/ Seminars/ Guest Lecture:

1. One Week Online FDP on “AI for Robotics”, from 28 May 2020 to 03 June 2020, GRIET, Hyderabad.
2. One-week Online Workshop on Blockchain Technology, GRIET, Hyderabad, 5–11 April 2022, in association with TCS, Hyderabad.
3. Online Webinar on Drone Technology, GRIET, Hyderabad, 16 June 2022, conducted by Thanos Technologies Pvt. Ltd., Hyderabad.
4. Expert Talk on “Transforming India with Unmanned Aerial Vehicles & Drones”, GRIET, Hyderabad, 26 August 2022, in association with TCS, Hyderabad.
5. One-week Training Program on Full Stack Development, GRIET, Hyderabad, 4–8 December 2023, in association with TCS, Hyderabad.One

Events Attended

FDPs/STTPs/Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Participated and completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Deep Learning for Social



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Impact: Atomic Object Detection in Real-World Applications,” conducted at Narsimha Reddy Engineering College, 03–08 February 2025.

2. One Week National Level Faculty Development Programme on Essential Mathematics for Data Science and Machine Learning”, held from 05th to 09th February 2024, , Organized by CBIT. Hyderabad.
3. Attended Faculty Development Program on “Societal Applications of Artificial Intelligence and Machine Learning in Mechanical and Civil Engineering,” organized by Department of CSE, Nalla Narasimha Reddy Education Centre (NREC), Maisammaguda, Hyderabad, held from 18–23 December 2023.
4. Attended Training the Trainer" program on Internet of Things", Programme held from 20 June 2022 to 11 July 2022, Organized by CDAC, Bengaluru.
5. Attended Online Faculty Development Program on “Data Analytics for Modern Research”, GRIET, Hyderabad, 21–23 May 2020.
6. Attended FDP201x – Pedagogy for Online and Blended Teaching Learning Process, conducted online by IIT Bombay, 30 October 2018 – 13 December 2018, GRIET, Hyderabad.
7. Attended FDP101x – Foundation Program in ICT for Education, conducted online by IIT Bombay, 13 September 2018 – 18 October 2018, GRIET, Hyderabad.

Online Certifications:

1. NPTEL Online Certification – Software Engineering.
2. Object-Oriented Design, Coursera.
3. PY0101EN: Python Basics for Data Science, edX.
4. Machine Learning Fundamentals, Infosys Springboard.
5. Python for Data Science, Infosys Springboard.

Any Other Contribution:

1. Recognized as a Research Supervisor by Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad. Research Supervisor ID: 24285050039.
2. Session Chair, 3rd International Conference on Advances in Computing, Communications & Electronic Systems (ACCES-2025), held on 26 April 2025 at Malineni Lakshmaiah Engineering College for Women, Guntur.
3. Session Chair, 1st International Conference on Innovative Computing Technologies (ICICT-2024), held during 13–14 December 2024 and organized by Chaitanya Bharathi Institute of Technology, Hyderabad, India.
4. Session Chair, 1st International Conference on Advances in Communications, Computing & Electronic Systems (ACCES-2022), 6–7 May 2022, organized by Avanthi Institute of Engineering and Technology in association with City University Malaysia.