Dr. M. Rudra Kumar
Professor

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

ADDRESS:
- D – Block -Room No 107

JNTUH ID:
212590-23002

EMAIL:
mrudrkumar_it@mgit.ac.in

DATE OF JOINING:
22-12-2023

EXPERIENCE - 20 Years
- Teaching - 20
- Research -13
- Industry -00
- Others – -

SUMMARY:
- Publications - 30
- Conferences - 12
- Patents – 06
- Books & Book Chapters – 8
- Honors/Awards - 01

EVENTS:
- Organized – 19
- Attended– 21

LET'S SEE MY PUBLICATIONS & RESEAECH CONTRIBUTIONS FROM THE FOLLOWING URLs:

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- https://scholar.google.com/citations?user=Y7tx9cAAAAAJ&hl=en

- https://vidwan.inflibnet.ac.in/profile/396180

Membership of Professional Bodies:
1. Life Member of the Computer Society of India (l1505411)

Responsibilities Held at the Institution Level:

Responsibilities Held at the Department Level:
2. **Professor,** Computer Science and Engineering at GPCET(Autonomous), Kurnool, Andhra Pradesh, India from 29th December to 20th December 2023
3. **Member Board of Studies,** for Computer Science and Engineering, G Pullaiah College of Engineering and Technology (Autonomous), Kurnool, A.P. from 28th June 2022 to 20th December 2023
4. **Professor & HOD**, Computer Science and Engineering at AITS (Autonomous), Kadapa, Andhra Pradesh, India from 2016 to 28th December 2021
5. **Chairman**, Computer Science and Engineering, Board of Studies of Annamacharya Institute of Technology and Sciences (Autonomous) Kadapa, Andhra Pradesh, India from 2016 to 2021.
6. **Member Board of Studies** for Computer Science and Engineering, Annamacharya Institute of Technology and Sciences (Autonomous) Kadapa, Andhra Pradesh, India from 2011 to 2013
7. **Coordinator,** M. Tech projects in the CSE Department at AITS, Kadapa, Andhra Pradesh, India, from 2008 to 2016

Research Guidance:
1. One student was awarded a Ph. D. (2017-18 to 2021-22) and One student's Ph. D. thesis was submitted.
2. Supervising FOUR Scholars admitted into the Ph.D. program at JNTUA, Anantapur, Andhra Pradesh.
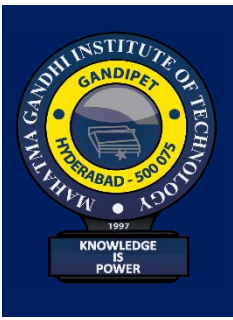
Honors/Awards Received:
1. Best paper award in the International Conference ICCCMLA-2019 held at Goa, India from 16th -17th August 2019.

Courses Handled at Under Graduate /Post Graduate Level:
1. **UG:** Software Engineering, Software Project Management, Software Architecture and Design Patterns, Object Oriented Analysis and Design (UML), Design and Analysis of Algorithms, Software Testing, Computer Networks. Artificial Intelligence, Machine Learning.
2. **PG:** Advanced Software Engineering, Software Quality Assurance and Testing.

Publications:
1. M. Rudra Kumar et al., "Prediction of Missing Data in Health Care Application Using Multi-Source Feature Selection Based LSTM Model in

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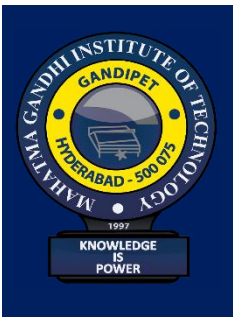- Honors/Awards - 01

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Wireless Sensor Networks" in Big Data Journal (Received Acceptance, **SCIE Indexed**).

2. M. Rudra Kumar et al., "Crop Yield Forecasting using Long Short-Term Memory Network with Adam Optimizer and Huber Loss Function", Concurrency and Computation: Practice and Experience. September 2022, https://doi.org/10.1002/cpe.7310 (Wiley Online Library, (**SCIE Indexed**)

3. M. Rudra Kumar et al., "Leaf Disease Classification Smart Agriculture using Deep Neural Network Architecture and IoT," Journal of Circuits, Systems, and Computers. Vol. 31, February 2022. (**SCIE Indexed**)

4. M. Rudra Kumar et al., "Dynamic Wavelength Scheduling by Multi-objective in OBS Networks", Journal of Mathematics, vol. 2022, Article ID 3806018, 10 pages, 2022. https://doi.org/10.1155/2022/3806018. (**SCIE Indexed**).

5. M Rudra Kumar et al., "Ensemble Learning by High Dimensional Acoustic Features for Emotion Recognition from Speech Audio Signal," Security and Communication Networks. Volume 2022, Feb'2022, Article ID 8777026, https://doi.org/10.1155/2022/8777026 (**SCIE Indexed**)

6. M Rudra Kumar et al., "Early detection of Cognitive Decline using Machine Learning algorithm and Cognitive Ability Test," Security and Communication Networks, Volume 2022, Jan'2022, |Article ID 4190023 | https://doi.org/10.1155/2022/4190023. (**SCIE Indexed**).

7. M Rudra Kumar et al. "Data mining and deep learning-based hybrid health care application," Applied Nanoscience (2022). https://doi.org/10.1007/s13204-021-02333-1 (Springer, **SCIE indexed**)

8. M Rudra Kumar et al., "Ensemble Learning by High Dimensional Acoustic Features for Emotion Recognition from Speech Audio Signal," Security and Communication Networks. Volume 2022, Feb'2022, Article ID 8777026, https://doi.org/10.1155/2022/8777026 (**SCIE Indexed**)

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10. Ramana, Kadiyala, Madapuri Rudra Kumar, K. Sreenivasulu, Thippa Reddy Gadekallu, SurbhiBhatia, Parul Agarwal, and Sheikh Mohammad Idrees. "Early prediction of lung cancers using deep saliency capsule and pre-trained deep learning frameworks." Frontiers in Oncology 12 (2022). https://www.frontiersin.org/articles/10.3389/fonc.2022.886739/full (**SCIE indexed**)

11. Madapuri, Rudra Kumar, and PC Senthil Mahesh. "HBS-CRA: scaling impact of change request towards fault proneness: defining a heuristic and biases scale (HBS) of change request artifacts (CRA)." Cluster Computing 22.5 (2019): 11591-11599. (**SCIE Indexed**)

12. M. Rudra Kumar et al., "Agriculture Crop Yield Prediction using Inertia based Cat Swarm Optimization", International Journal of Electrical and Computer Engineering (IJECE) Vol. 99, No. 1, pp. 1~1x. (Got acceptance, to be published) (SCOPUS)

13. M. Rudra Kumar et al., "Automated Cotton Leaf Identification Using Feature Selection Techniques," International Journal of Intelligent Systems and Applications in Engineering, 11(11s), 410– 415. Retrieved from https://ijisae.org/index.php/IJISAE/article/view/3506 (SCOPUS)

14. M. Rudra Kumar et al., "Enhancing Collaborative Filtering with Multi-Model Deep Learning Approach", Int J Intell Syst Appl Eng, vol. 11, no. 6s, pp. 01–12, May 2023. (SCOPUS)

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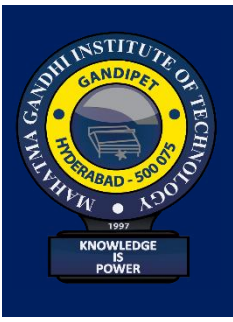- Patents – 06
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15. M. Rudra Kumar et al., "Real-Time Hand Gesture Recognition for Improved Communication with Deaf and Hard of Hearing Individuals", Int J Intell Syst Appl Eng, vol. 11, no. 6s, pp. 23–37, May 2023. (SCOPUS)

16. Vadlamaani , S. M., P. K. . Bharti, and M. R. . Kumar. "Generalized Statistical Indicators For Cloud Computing Fault Tolerance". International Journal of Intelligent Systems and Applications in Engineering, vol. 10, no. 1s, Oct. 2022, pp. 269 -281. (SCOPUS)

17. Siraj, S.., P. K. . Singuluri, and M. R. . Kumar. "AI Intelligence-Based Gender Classification Using Biometric-Digital Signature Feature Extraction Methods". International Journal of Intelligent Systems and Applications in Engineering, vol. 10, no. 1s, Oct. 2022, pp. 262-269. (SCOPUS)

18. Swetha, A. ., M. S. . Lakshmi, and M. R. . Kumar. "Chronic Kidney Disease Diagnostic Approaches Using Efficient Artificial Intelligence Methods". International Journal of Intelligent Systems and Applications in Engineering, vol. 10, no. 1s, Oct. 2022, pp. 254 -261. (SCOPUS)

19. Thulasi , M. S. ., B. . Sowjanya, K. . Sreenivasulu, and M. R. . Kumar. "Knowledge Attitude and Practices of Dental Students and Dental Practitioners Towards Artificial Intelligence". International Journal of Intelligent Systems and Applications in Engineering, vol. 10, no. 1s, Oct. 2022, pp. 248-53. (SCOPUS)

20. M Rudra Kumar et all., "Machine Learning-Based Project Resource Allocation Fitment Analysis System (ML- PRAFS)," in Computational Intelligence in Machine Learning of EE book series (LNEE, volume 834), Springer, Singapore. January 2022. pp 1-14, (SCOPUS)

21. M Rudra Kumar et all., "Diagnosis and Medicine Prediction for COVID-19 Using Machine Learning Approach," in Computational Intelligence in Machine Learning of EE book series (LNEE, volume 834), Springer, Singapore. January 2022. pp 123-133, (SCOPUS).

22. Lakshmi, T. Naga, S. Jyothi, and M. Rudra Kumar. "Image Encryption Algorithms Using Machine Learning and Deep Learning Techniques—A Survey." Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough. Springer, Cham, 2021. 507-515. (SCOPUS)

23. Madapuri Rudra Kumar, Vinit Kumar Gunjan, Mohd Dilshad Ansari, "Learning-Based HR Appraisal System (ML-APS)," International Journal of Applied Management Science (Inderscience Publishers, Forth Coming Issue). (SCOPUS)

24. Kumar, Madapuri Rudra, and Vinit Kumar Gunjan, "Review of machine learning models for credit scoring analysis." Ingeniería Solidaria 16.1 (2020). (Web of Science)

25. MRK K Uday Kumar Reddy, G Chennakessava Reddy, "Estimating Available Bandwidth Using End-to-End Delay Increase Rate," International Journal of Innovative Technology and Exploring Engineering (IJITEE), 8.11 (2019). (SCOPUS)

26. GIKDB M Rudra Kumar, T N Ranganatham, "Optimal Integrity Policy for Secure Storage of Encrypted Data Using Cloud Computing," International Journal of Innovative Technology and Exploring Engineering (IJITEE). 8. 11 (2019). (SCOPUS).

27. M Rudra Kumar et al., "Energy Efficient Scheduling of Cloud Data Center Servers," International Journal of Innovative Technology and Exploring Engineering, 8.11 (2019) (SCOPUS).

28. M Rudra Kumar et al., "Detecting Stress Based on Social Networking Interactions," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol 8, Issue 11, 2019. (SCOPUS).

29. M Rudra Kumar et al., "Reciprocal Repository for decisive Data Access in Tolerant Networks," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, Issue 1,2019. (SCOPUS).

30. Mahesh, PC Senthil, K. Sasikala, and M. Rudra Kumar. "Face Recognition Based Automated Student Attendance System using Deep Learning." International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), Vol. 9, No. 3, June 2020. (SCOPUS).

Conferences:

1. Kumar, M.R., Teja, R.V.S.S.S.T., Reddy, A.V.R., Krishna, S.V., Koushik, P.V. (2023). Detecting the Attacks Using Blockchain-Based Decentralized Security Architecture in IoT Environment. In: Kadry, S., Prasath, R. (eds) Mining Intelligence and Knowledge Exploration. MIKE 2023. Lecture Notes in Computer Science, vol 13924. Springer, Cham. https://doi.org/10.1007/978-3-031-44084-7_30 (SCOPUS)

2. M. R. Kumar, N. Natteshan, J. Avanija, K. R. Madhavi, N. S. Charan and V. Kushal, "SMOTE- TOMEK: A Hybrid Sampling-Based Ensemble Learning Approach for Sepsis Prediction," 2023 2nd International Conference on Edge Computing and Applications (ICECAA), Namakkal, India, 2023, pp. 724-729, doi: 10.1109/ICECAA58104.2023.10212208 (SCOPUS)

3. Kumar, M.R., Likhitha, A., Komali, A., Keerthana, D., Gowthami, G. (2023). Multimodal Body Sensor for Recognizing the Human Activity Using DMOA Based FS with DL. In: Kadry, S., Prasath, R. (eds) Mining Intelligence and Knowledge Exploration. MIKE 2023. Lecture Notes in Computer Science, vol 13924. Springer, Cham. https://doi.org/10.1007/978-3-031-44084-7_1 (SCOPUS)

4. G. S. S. Kumar and M. R. Kumar, "Dimensions of Automated ETL Management: A Contemporary Literature Review," 2022 International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2022, pp. 1292-1297, doi: 10.1109/ICACRS55517.2022.10029274 (SCOPUS)

5. M. R. Kumar, B. R. Devi, K. Rangaswamy, M. Sangeetha and K. V. R. Kumar, "IoT-Edge Computing for Efficient and Effective Information Process on Industrial Automation," 2023 International Conference on Networking and Communications (ICNWC), Chennai, India, 2023, pp. 1-6, doi: 10.1109/ICNWC57852.2023.10127492 (SCOPUS)

6. Swathi, B., Kumar, M. R., Belgaum, M. R., & Alansari, Z. (2022, December). Emotion Recognition Using Bayesian Learning from a Multi-Label Data Corpus. In 2022 International Conference on Computing, Networking, Telecommunications & Engineering Sciences Applications (CoNTESA) (pp. 17-22). IEEE, DOI: 10.1109/CoNTESA57046.2022.10011330. (SCOPUS)

7. M. R. Kumar, A. Sharma, Y. K. Bhargavi and G. Ramesh, "Human Resource Management Using Machine Learning-Based Solutions," 2022 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC), 2022, pp. 801-806, DOI: 10.1109/ICESC54411.2022.9885526. (SCOPUS)

8. M. Rudra Kumar et all., "Piot Based Seed Germination Assessment (PBSGA) Pattern for Germination Quality Analysis",2022 5th International Conference Inventive Computation Technologies (ICICT-2022). IEEE, July 20th -22nd, 2022, Tribhuvan University, Nepal, DOI: 10.1109/ICICT54344.2022.9850837. (SCOPUS)

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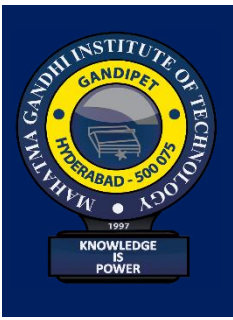- Teaching - 20
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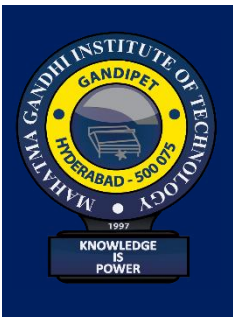
- https://vidwan.inflibnet.ac.in/profile/396180

9. Reddy, D. Jayanarayana, and M. Rudra Kumar. "Crop Yield Prediction using Machine Learning Algorithm." 2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS). IEEE, May 6th - 8th 2021, Vaigai College Engineering (VCE), Madurai, India. (SCOPUS)

10. M. Rudra Kumar, Dr. A Ananda Rao, "Assessing the Fault proneness Degree (DFP) of Change Requests and Change Requests Artifacts: A Statistical Bipartite Graph Strategy", Eighth International Conference on Data Mining and Warehousing, July 2014, Society of Information Processing, Bengaluru and Visvesvaraya College of Engineering, Bangalore University, Bengaluru.

11. M. Rudra Kumar, "Taxonomy of Artifacts in Object Oriented Development Paradigm: Current State of the Art", IEEE Sponsored International Conference on Computing, Communication and Applications (ICCCA 2012), February-2012, PSNA College of Engineering, Dindigal, Tamilnadu.

12. M. Sankar Prasanna, M. Rudra Kumar, "Protecting Web Servers from DDOS Attacks Using Websos", International Conference on Advanced Computing Technologies (ICACT 2008), December-2008, GRIET, Hyderabad.

Patents:

1. M Rudra Kumar et al., "Expected Conditional Clustered Regressive Depp Multilayer Precepted Nural Learning for IoT Based Cellular Network Traffic Prediction with Big Data," Australian. Patent 2020104133, FEB 17 2021.

2. M Rudra Kumar et al., "System and Computer Implemented Methods for Analyzing Features of Digital Medical Images," Indian. Patent 201941049665 A, DEC 20 2019.

3. M Rudra Kumar et al., "System and Computer-Implemented Methods for Analyzing Features to Generate Sleep Disorder Insights," Indian. Patent 201941045922 A, NOV 29 2019.

4. M Rudra Kumar et al., "A Heuristic and Biases Scale (HBS) Model of Change Request Artifacts (CRA)," Indian. Patent 201941038110 A, OCT 18 2019

5. M Rudra Kumar et al., "Computer-Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities," Indian. Patent 201941033884 A, SEPT 20 2019

6. M Rudra Kumar et al., "Early COVID Prediction: Neuro-Fuzzy Multi-Layered Data Classifier," Australian. Patent 2020102448, OCT 28 2020.

Research & Consultancy:

No. of Books/Chapters Published with details:

1. Dr. M Rudra Kumar and S fahimuddin and KLNC Prakash, "Computer Vision Techniques in Medical Imaging," in Educreation Publishing, India, 2017. (978-1-5457-0834-7).

2. Rudra Kumar and KSN Prasad and Annaluri Sreenivasa Rao, "Defect Prediction in Software Development & Maintenance," in Partridge Publishing, 2018. (978-1-5437-0242-2)

3. Dr. M Rudra Kumar and KSN Prasad and Annaluri Sreenivasa Rao, Vinit Kumar Gunjan "Change Request Impacts in Software Maintenance", in CRC Press, Taylor & Francis Group, 2020. (978-0-367-89874-8).

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4. Dr. M. Rudra Kumar et al., "Nomenclature of Data streams, Mining Strategies, Concept Drift and Research Objectives," in Shineeks Publishers, March 2022. (978-1-63278-953-2)

5. M. Rudra Kumar et al., 'Customer Purchase prediction and potential Customer identification for Digital Marketing Using Machine Learning," in AI-Driven Intelligent Models for Business Excellence, IGI Global Publisher of Timely Knowledge, August 2022. DOI: 10.4018/978-1-6684-4246-3, EISBN13:9781668442487

6. M. Rudra Kumar and Vinit Kumar Gunjan," Peer Level Credit Rating: An Extended Plugin for Credit Scoring Framework," in Lecture Notes in Electrical Engineering, vol 828. Springer, Singapore. https://doi.org/10.1007/978-981-16-7985-8_128. Online_ISBN978-981-16-7985-8

7. M. Rudra Kumar and Vinit Kumar Gunjan," WA-SCV Analysis for Scope Creep Management in a Software Project Requirements," in Lecture Notes in Electrical Engineering, vol 828. Springer, Singapore. https://doi.org/10.1007/978-981-16-7985-8_128. Online_ISBN978-981-16-7985-8
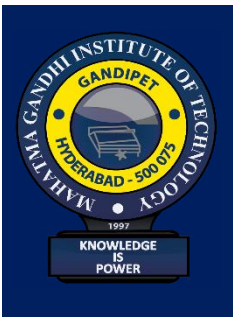
Events Organized:

Conferences:
1. National level Technical Fest on 8th Feb'2018.
2. National level Technical Fest on 15th Feb'2019
3. National Conference on Emerging Trends in Engineering & Technology (NCETET 2021) 15th Sept'2021
4. National Level Technical Students Online Symposium 2021' (ATM-21)

FDPs/STTPs:
1. A Two-day FDP on the Internet of Things
2. A Five-day FDP on the Impact of the Internet of Things on Society
3. A Five-day FDP on Artificial Intelligence

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lectures:
1. A Three-Day Workshop on IBM Cloud Application Development PHASE-1 from 05-10-2017 to 07-10-2017
2. A Three-Day Workshop on IBM Cloud Application Development PHASE-II from 05-04-2018 to 07-04-2018
3. A Two-day workshop on Cyber Security/Ethical Hacking from 07-09-2018 to 08-09-2018
4. A Three-Day Workshop on Amazon Web Service Technical Essentials from 17-09-2018 to 19-09-2018.
5. A Three-Day Workshop on Cyber Security- Hands-on Practice from 20-09-2018 to 22-09-2018.
6. A Three-Day Workshop on Cloud-based Real-Time Application of IoT using Raspberry PI using ThingSpeak from 12-09-2019 to 14-09-2019.
7. A two-day Industry Interaction on Post COVID Career Tips and Tricks from 25th May 2020 to 26th May 2020
8. A Webinar on Artificial Intelligence and Data Science from 1st July 2020 to 3rd July 2020
9. A Four Day Nation Level Online Quiz on Programming Languages-21st

June 2021 to 24th June 2021

10. A Six Day Workshop on Web Development Using Django from 5-7-2021 to 10-07-2021

Events Attended

FDPs/STTPs:

1. A Five-day STTP on Quantum Computing and its Applications: Modern Approaches and Practices organized by National Institute of Technology-Raipur

2. One-week FDP on Course Structuring, Teaching and evaluation in HEI as per OBE organized by Mallareddy College of Engineering, in association with ISTE & MHRD

3. Two weeks FDP on Big Data Analytics for Cyber-Physical Systems: Research Challenges and Opportunities organized by Sri Venkateswara College of Engineering, Tirupati

4. One-week FDP on Artificial Intelligence with IBM Watson organized by SMART BRIDGE in collaboration with IBM

5. One-week FDP on Deep Learning organized by Electronics & ICT Academy NIT Warangal and SVEC, Tirupati

6. One-week FDP on Machine Learning Algorithms and smart Applications organized SPMVV Society for Innovation Entrepreneurship Technology Business Incubator

7. Two Week FDP on Pedagogy for Online and Blended Teaching-Learning Process organized by IIT Bombay

8. Two Week STTP on Foundation Program in ICT for education organized by IIT Bombay

9. Two-week STTP on Recent Trends in Cloud Computing and Security organized by VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad

10. Eight-week FDP on Advanced Web Technologies & PHP organized by Dept. of Skill Development Entrepreneurship & Innovation, Government of A.P

11. Two-week STTP on Introduction to Design of Algorithms organized by Indian Institute of Technology, Kharagpur

12. Two-week FDP on Technical Communication organized by Indian Institute of Technology Bombay

13. Two-week FDP on Computer Networking organized by Indian Institute of Technology Bombay

14. Two-week FDP on Cyber Security organized by Indian Institute of Technology Bombay

15. Five-day STTP on Mission 10X organized by AITS in association with Wipro Enterprises Pvt. Ltd

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lectures:

1. Two-day workshop on Association for Software Systems: Practice Research and Engineering (ASPIRE'10) organized by JNTUA College of Engineering, Anantapur, A.P.

2. A one-day workshop on Systems Integration: The MicrosoftWay

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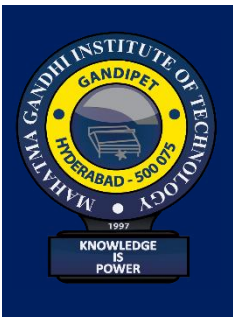- Publications - 30
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organized by the Institute of Electronic Governance, Government of AP

3. A one-day workshop on Market-Oriented Cloud Computing organized by JNTUA College of Engineering, Anantapur, A.P
4. Two-day workshop on Natural Language Processing (NLP) organized by JNTUA College of Engineering, Anantapur, A.P
5. Three-day workshop on IBM SEED Program (Rational Software Architect) organized by IBM Software Group-Career Education & AITS, Rajampet
6. Two-day workshop on Cyber Security organized by SJB Research Foundation, Bangalore

Online Certifications:

1. Certification in 'A machine learning foundations: A Case Study Approach' from Coursera.
2. Certification in 'Python Basics' from Coursera.
3. Certification in 'Machine Learning: Clustering & Retrieval' from Coursera
4. Certification in 'Industrial IoT on Google Cloud Platform' from Coursera

Any Other Contribution:

1. Acted as **Jury Member and Coordinator** for Smart India Hackathon Grand Finale 2022 (SIH-2022) conducted by the Ministry of Education, held at GPCET Kurnool from 25th to 26th August 2022.
2. Acted as **Session Chair** for the International Conference on Advances in Science, Engineering, and Mathematics (ICASEM2020) held at AITS Kadapa from 7th to 9th August 2020.
3. Acted as **Session Chair** for the International Conference on Cognitive Informatics and Soft Computing (CISC- 2019) held at AITS Kadapa from 7th to 9th and 10th April 2019.