

Name: **Dr.MADHU BALA MYNENI**
 Designation: Professor
 Department: Computer Science and Engineering
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Experience (in years): 18 Teaching: 18 Research: 8 Others(if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	UG: B.Tech	1998	Electronics and Communication Engineering
2	PG: M.Tech	2006	Computer Science
3	Ph.D	2015	Computer Science and Engineering - Image Mining

2. Teaching and Learning:

- 2.1. Teaching Interests: Data Base Management Systems, Data Mining and Warehousing, Machine Learning, Image Processing
- 2.2. Novel Teaching & Learning Techniques adopted: PPT/Tool based demos, PBL- Project Based Learning, RBL – Research-based Learning, Learn by doing WIT & WILL
- 2.3. Involvement in curriculum updating / Design: Design of Course Structure of UG-CSE & PG - CSE

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Exploring new places, updating technologies
- 3.2. CCA/ECA Organized: 12
- 3.3. CCA/ECA participated: 14
- 3.4. Counseling and Mentoring Activity: -
- 3.5. Committees involved in: -

4. Conference / Workshop / Seminar / Guest Lectures :

4.1 Conducted:

- Two-week Faculty Development Program (FDP) (Online) on “Advanced Pedagogy and Digital Tools in Engineering Education, from 14 - 26 December, 2020, sponsored by AICTE, New Delhi.
- ATAL One week Faculty Development Program (FDP) (Online) on “Data Sciences, from 14 - 19 February, 2021 sponsored by AICTE, New Delhi.
- AICTE Sponsored one-week Short Term Training Program (STTP) Series (Online) on “Advanced Computing using Emerging Technologies in Smart Environment (Phase-1)” from 2 – 7 November 2020 sponsored by AICTE, New Delhi.
- AICTE Sponsored one-week of Short Term Training Program (STTP) Series (Online) on “Advanced Computing using Emerging Technologies in Smart Environment (Phase-2)” from 23 – 28 November 2020 sponsored by AICTE, New Delhi.
- A Webinar on Webinar on Career opportunities after B. Tech: in perspective GATE
- In association with ACE Academy on 9 April 2021.
- Resource Person: Mr. S. Manimohan Trinath, ACE Engg Academy, Hyderabad, Telangana
- 7-Day Faculty Development Program on “Nuts and Bolts of Machine Learning Model: Theory and Practical with Python” on 21-27 May, 2021.
- Resource Person: Dr. Saroj Kumar Biswas, NIT Silchar
- A Webinar on Know About Robotic Process Automation (RPA): The future of Next Gen IT

- In association with one AutoMax 1.0, Sahasraditya Techno Solutions, CSI Knowledge Sharing Session on 19 April 2020.
- Resource Person: Mr. S Yedunanadan, Sahasraditya Techno Solutions
- 3-Day Faculty Development Program on "Cyber Forensics and Attacks", 22-25 May 2020. Resource Person: Sai Satish, CEO - Indian Servers
- A National Level 5 Day Faculty Development Program on "Cloud Infrastructure and Virtualization" 25-29 May 2020.
- Resource Person: Balaji Kothapalli, Rubrik
- A National Level webinar on Machine Learning Approaches”, in association with PANTECH E Learning on 9 July 2020.
- Online Faculty Development Program on “Insight into Various Accreditation Criteria of NBA Process” 25 – 29 May 2020, under AICTE – MARGDARSHAN SCHEME
- Internal Hackathon at IARE, SPOC- Smart India Hackathon (SIH – 2020), AICTE, MHARD
- Faculty Development Programme (FDP) on “Artificial Intelligence and Machine Learning” in collaboration with NIT Warangal - ICT on 29 April – 4 May 2019.

4.2 Attended:

- STTP on Blockchain for digital transformation, CBIT, Hyderabad during 12-16 August, 2021
- ATAL-FDP on Quantum Computing, GITAM, Bangalore during 04-08 January, 2021.
- FDP on Machine Learning for Computer Vision, NIT Warangal – ICT from 21 Feb -04 March, 2022.
- FDP on A Disaster Management Framework using Internet of Things – Based Interconnected Devices, NIT Warangal – ICT during 07-20 April, 2022.
- FDP on Data Science with Python, NIT Warangal – ICT during 21-30 March, 2021.
- FDP on Emerging Optimization Techniques for engineering applications, NIT Warangal – ICT at IARE during 31 January-10 February, 2022.
- FDP on Evolution of Teaching Learning Process by Bharath Institute of Science and Technology during 10-15 May, 2020.
- FDP on NBA and NAAC Accreditation Process by M S Ramaiah Institute of Technology, Bangalore during 04-08 June, 2020.
- FDP on Artificial Intelligence, NIT Warangal during 8-12 June, 2020.
- ATAL-FDP on Design Thinking, JNN College of Engineering, Bangalore during 18-22 January, 2021
- LaTeX training, Gurunanak Institute of Technology (GNIT) offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. 30 May 2020
- Python 3.4.3 training, Gurunanak Institute of Technology (GNIT) offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. 30 May 2020
- R training, Gurunanak Institute of Technology (GNIT) offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. 30 May 2020
- A five-Day Faculty Development Program on “Artificial Intelligence and Machine Learning for Engineering Applications” organized by VNR Vignana Jyothi Institute of Engineering and Technology, 8-12 June, 2020.

- A webinar on “Session 13: Innovation Risk Diagnostic — Product Innovation Rubric (PIR)”, MHRD's Innovation Cell - Online Session, 15 May 2020 @3-4:00 PM
- One day Online Faculty Development Program on “Challenges in Building Collaborations in Research and Innovation” organized by Dr. M.G.R. Educational and Research Institute on 9 May 2020.
- Webinar on “Research Workflows, Research Metrics & Excellence in Academic Institutes” organized by AICTE-Elsevier on 6 May, 2020.
- Webinar on “Introduction to IOT Application of IOT Hardwares used for IOT Clouds & protocols” IETE with Pantech E Learning on 4 May 2020
- Five-day Online Faculty Development Programme on “Evolution of Teaching Learning Process – Post Covid 19” organized by Bharath Institute of Higher Education and Research on 11-15 May 2020.
- A Webinar Based Tech Talks #01 "Consent & Data" - Cyber Security Perspective, organized by IEEE Education Society, Institute of Electrical and Electronics Engineering (IEEE) Hyderabad Section in association with Computer Society of India, Hyderabad Chapter, On 5 April 2020
- A webinar on “Design Thinking” organized by IEEE on 10 May 2020, @ 04:00 to 05:30 PM.
- A Webinar on “Virtual Reality” organized by SRM with Pantech E Learning on 14 May 2020.
- Faculty Development Programme (FDP) on Artificial Intelligence and Machine Learning is organized in collaboration with NIT Warangal - ICT on 29 April – 4 May, 2019.
- National level Faculty Development Programme (FDP) in Entrepreneurship Organized by Centre for Entrepreneurship, Rajiv Gandhi University in collaboration with National Science & Technology Entrepreneurship Development Board, DST, GoI & EDII on 23 April – 4 May 2019.
- Two-week faculty development program on Challenges and Current Solutions of Cyber Physical Systems, Sree Vidyanikethan Engineering College, Tirupati during 11-23-12-2018
- A Brain Storming Session on "Empowerment of Women Technocrats in R&D with special reference to Manufacturing Sector" is being planned by Department of Science and Technology (DST) at Kalasalingam University, Thiruananthapuram Campus, April 27-28, 2018.
- Attended and participated in the deliberations of “Interdisciplinary Cyber Physical Systems” on 6.7.2017 organized by DST-TIFAC at the Administrative Staff College of India, Hyderabad.
- Three-day workshop on "Information Driven Image Mining Framework and Techniques for Image / Video Processing" VNR Vignan Jyothi Institute of Engineering and technology, Hyderabad under technical education quality improvement program - II. 20- 22 Mar,2017
- One-week National Level Training Program on ‘Entrepreneurship Development & Management for Women Scientists and Technologists Programme (EDMWT)’, on 19 - 23 February 2018, sponsored by DST, Govt. of India, at EDII campus, Ahmedabad.
- Institute level academic policy makers meet for “Discussion on present and future trends in industry” organized by swecha academic chapter on 19 Sep 2017.
- Two-week faculty development program on "Challenges and Current Solutions of Cyber Physical Systems organized” sponsored by AICTE organized by Sree Vidyanikethan Engineering College, Tirupati. 11.12.2017 to 23.12.2017.
- Seminar on “Interdisciplinary Cyber Physical Systems” by R&D, HRD on 6 July 2017.
- Master Training Program on "Predictive Analytics" (Associate Analytics Module-3) job role at JNTUH organized by NASSCOM, TASK & JNTUH from 23 - 27 November 2016.
- 3 Day workshops on "R Programming Basics, Predictive Modeling using Regression Analysis" Sir C R Reddy College of Engineering, Eluru, Andhra Pradesh. 30 Jul -1 Aug, 2016

- One-week workshop on “Machine learning Applications using R Programming: Machine Learning – Recent Trends and Applications” GNITS in association with E & ICT, NIT Warangal. 21 - 26 Nov, 2016
- Master Training Program on "Big data Analytics" (Associate Analytics Module-2) job role at JNTUH organized by NASSCOM, TASK & JNTUH from 7 - 12 June 2016.
- Participated in "Building Cyber Security Skills" conclave at New Delhi organized by NASSCOM & Semantec Technologies on 18th April 2016.
- Master Training Program on “R Programming” (Associate Analytics Module-1) job role at JNTUH organized by NASSCOM, TASK & JNTUH from 21 - 25 Nov 2015.
- Two-day workshop on “Big Data Analytics and Hadoop” at G Narayanamma Institute of Science and Technology autonomous campus, Hyderabad, 2014
- SDP on “Soft computing Techniques in image processing” at G Narayanamma Institute of Science and Technology, Hyderabad from 24 June - 3 July 2009.
- Training on “Rational Rose Tool” by IBM from 19 - 21 May 2008 at B.V.R.I.T.
- SDP on Samartyam at Tata Consultancy Services, Hyderabad from 3 - 5 Jan 2008.
- SDP on “Mat labs” from 19 Feb 2008 to 23 Feb 2008 at B.V.R.I.T.
- Attended a SDP on “J2EE Technologies” from 9 - 11 Sept, 2007 at B.V.R.I.T.
- SDP on “.NET Framework” from 7 - 9 Feb, 2007 at B.V.R.I.T.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

- One day online seminar on Effective grant proposal writing and preparing research manuscripts, PVP Siddhartha Information Technology, Vijayawada, 28 March, 2022
- Online Faculty Development Program on “Insight into Various Accreditation Criteria of NBA Process”, IARE - Margdarshan Scheme, 25 – 29 May 2020
- Online STTP on Data Science for social good: Part-1(24-29 August, 2020) PVP Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh
- Online STTP on Data Science for social good: Part-2 (7 - 12 September 2020), PVP Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh
- Guest lecture on Data Warehouse and Data Mining, at St. Martin’s Engineering College, Hyderabad, Telangana, 24 January, 2018
- Guest talk on Tips to Increase API Score and Writing, Publishing Research Articles in faculty development program Two-day induction course, JB Institute of Engineering and Technology, Hyderabad, Telangana, 19 - 20 December 2017
- Sessions handled on R Programming Essentials, Data Insights, Data Modelling, Data Visualizations, Case Studies Finishing School Program (21 days) @IARE, Aug, 2017
- Guest talk on Cluster Analysis in R: Data Analytics using R, in a Two-week Faculty Development Program, 22 March 2017, CBIT
- Guest talk on Information driven image mining framework and techniques for image / video analysis: Image and Video Processing using MATLAB, National level 3-Day workshop, 20 - 22 March 2017, VNRVJIET
- Talk on Machine learning Applications using R Programming: Machine Learning – Recent Trends and Applications in One Week Faculty Development Program, 21- 26 November 2016, GNITS in association with Electronics & ICT, NIT, Warangal.

- Three-day workshop on R Programming Basics, Predictive Modelling using Regression Analysis, Sir CR Reddy College of Engineering, Eluru, Andhra Pradesh, 30 July - 1 August 2016,
- Session handled on Data science Fundamentals, Data modelling and Visualizations: Big Data Analytics, Two Week Faculty Development Program on Big Data Analytics (DST sponsored), 11-14 June 2016, P.V.P Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh.
- Course handled on R programming, Finishing School Training (TEQUIP sponsored), 2 - 7 June 2016, Department of CSE, JNTUH College of Engineering.
- Guest talk on How to Publish a Paper, IEEE-VBIT Computer Society Chapter on 18 June 2013
- Guest Talk on Object Oriented Programming, Avanthi Scientific Technological and Research Academy, Hayatnagar(M), Hyderabad 21 Feb ,2013
- Seminar on Image Processing Techniques, Sri Visveswaraya Institute of Technology & science, Mahbubnagar on 9 Aug ,2011
- Seminar on Data warehousing, Sri Visveswaraya Institute of Technology & science, Mahbubnagar on 9 Aug ,2011
- Training on PLSQL Module, STP V program conducted by IEG at HUG HOUSE, Hyderabad from 13 and 14 Aug 2008.
- Foundation Program - Few Modules in DBMS, HCI, JKC & Infosys.

5.2. Articles / Chapters published in Books:

- Manne, Akhila and Madhu Bala Myneni. "Social Media for Disaster Awareness and Management." Research Anthology on Managing Crisis and Risk Communications, edited by Sumit Narula, et al., IGI Global, July, 2022, pp.660-684. DOI:10.4018/978-1-6684-7145-6
- Bala, Myneni Madhu, et al. "Dynamic Behavior Analysis of Railway Passengers." Research Anthology on Strategies for Using social media as a Service and Tool in Business, edited by Information Resources Management Association, IGI Global, 2021, pp. 766-792. <http://doi:10.4018/978-1-7998-9020-1.ch039> ISBN:9781799890201 WOS Indexed
- Pedduri S.C., Ginnavaram S.R.R., Myneni M.B., Padmaja B. (2020) Photorealistic Image Synthesis Using SPADE Algorithm. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automations. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. https://doi.org/10.1007/978-981-15-5089-8_37 (Scopus)
- Manne, Akhila and Madhu Bala Myneni. "Social Media for Disaster Awareness and Management." Environmental Awareness and the Role of Social Media, edited by Sumit Narula, et al., IGI Global, 2019, pp. 82-116. <http://doi:10.4018/978-1-5225-5291-8.ch005>WOS Indexed
- Bala, M. M., Ravilla, V. K., Prasad, K., & Dandamudi, A. (2018). Dynamic Behavior Analysis of Railway Passengers. In Innovative Applications of Big Data in the Railway Industry (pp. 157-182). IGI Global. DOI: 10.4018/978-1-5225-3176-0.ch007 (WoS)
- Myneni M.B., Srividya Y., Dandamudi A. (2017) Correlated Cluster-Based Imputation for Treatment of Missing Values. In: Satapathy S., Prasad V., Rani B., Udgata S., Raju K. (eds) Proceedings of the First International Conference on Computational Intelligence and Informatics. Advances in Intelligent Systems and Computing, vol 507. Springer, Singapore. https://doi.org/10.1007/978-981-10-2471-9_17
- Madhu Bala Myneni, Detecting Cyber Intrusions in Emails using Knowledge Based Clustering, International Conference on Soft Computing Techniques in Engineering and Technology (ASCTET) -2016, 25 -27 October, 2016, Proceedings in IEEE-IET.

- M. Madhubala, “A study on image mining –a categorical assessment”, International Conference Systemics, Cybernetics and Informatics (ICSCI 2010), pp: 487-493, Jan 30, 2010.

5.3. Books published as a single author or as editor:

1. “Introduction to DBMS: Theory and Practicals”, AICTE, New Delhi. December 2022, ISBN: 978-81-960386-1-82. <https://ekumbh.aicte-india.org/dbook.php#>
2. "Gesture Controlled Robot using RF Module", Institute of Aeronautical Engineering, lulu.com, 12 August 2017. ISBN No: 800123837614.
3. “Learning Analytics on Cloud Based Employability Skill Test Series: Data on Proficiency Tests Performance of Undergraduate Engineering Students” GRIN Verlag, 7 November 2018, ISBN No: 9783668830370. <https://www.grin.com/document/436400>
4. “Malicious Email Filter: Detect suspicious Emails”, Lambert publication, April 2018. ISBN No: 978-613-7-42435-3.

5.4. Projects Guided:

a) UG: 60 b) PG: 35

5.5. Research Interests: Data Modelling. Computational Intelligence, Federated Learning

5.6. Ph.D students :

a) Enrolled: 1 b) Submitted: - c) Awarded:-

5.7. Papers published in reviewed journals :

- Myneni Madhu Bala, Akkineni Harith, Sirivella Siva Abhishek et al. Implementation of an adaptive E-learning platform with facial emotion recognition. *Microsystems Technologies* (2023). <https://doi.org/10.1007/s00542-023-05420-1>(SCIE&Scopus, Impact factor:2.5)
- Botlagunta M, Botlagunta Madhavi Devi., Myneni Madhu Bala et al. Classification and diagnostic prediction of breast cancer metastasis on clinical data using machine learning algorithms. *Scientific Reports*, 13, 485 (2023). <https://doi.org/10.1038/s41598-023-27548-w> (SCIE & Scopus, Impact factor:4.996)
- Myneni Madhu Bala, Vasundhara D N, Haritha Akkineni. et al. Design, development, and performance analysis of cognitive assisting aid with multi-sensor fused navigation for visually impaired people. *J Big Data* 10, 21 (2023). <https://doi.org/10.1186/s40537-023-00689-5> (SCIE, Impact factor:10.835)
- K. Rajendra Prasad, Govardhan Reddy Kamatam, Madhu Bala Myneni, N. Ramanjaneya Reddy, A Novel Data Visualization Method for the Effective Assessment of Cluster Tendency Through the Dark Blocks Image Pattern Analysis, *Microprocessors and Microsystems*, 2022,104625, ISSN 0141-9331, <https://doi.org/10.1016/j.micpro.2022.104625> (SCIE, Impact factor:3.03)
- Myneni Madhu Bala, Haritha Akkineni, Chennupalli Srinivasulu, Approach for Learner Categorization Based on Emotions in Intelligent Adaptive E-Learning Environment, *Journal of mobile multimedia*, Vol 18 Iss 6, 2022. DOI: <https://doi.org/10.13052/jmm1550-4646.18611> (Scopus, Impact Factor: 1.2)
- Haritha Akkineni, Myneni Madhu Bala, Venkatasuneetha Takellapati, Madhuri Nallamothu, Suresh Yadlapati, Measuring Research Interest Similarity Among Authors Using Community Detection, *Journal of Theoretical and Applied Information Technology*, Vol 100, No.11, 2022. <http://www.jatit.org/volumes/Vol100No11/10Vol100No11.pdf> (Scopus, Impact Factor: 1.2)
- Madhubala, D., Rao, N. K., Roopa, D. Y. M., Kalyani, D., Pranay, M., & Raju, C. K. A Tool to Convert Audio/Text to Sign Language Using Python Libraries. *Turkish Journal of Physiotherapy and Rehabilitation*, 32, 2, 2021. (Scopus)

- K Rashmi, N V Krishna Rao, Dr. M Madhu Bala, M Lahari, Neha Fathima, V Prudhvi, Prediction of Diabetes Mellitus Using RBF Neural Model and Genetic Algorithm, Turkish Journal of Physiotherapy and Rehabilitation, Vol.32 No.3,1524 – 1531, 2021.
- J Thirupathi , N V Krishna Rao , Dr. M Madhu Bala , K Prathima, D Naveen , G Mallikarjun, Object Tracking Using OpenCV and Python, Annals of the Romanian Society for Cell Biology, Vol. 25, Issue 6, 2021(WoS)
- Madhu Bala M., A. K. Y. G. S. P. Praveen Kumar. (2021). A Deep Learning Based Algorithm Design for Fake News Detection Framework. Annals of the Romanian Society for Cell Biology, 25(6), 4182–4192. Retrieved from <https://www.annalsofrscb.ro/index.php/journal/article/view/6212>
- N.M. Deepika, Myneni Madhu Bala, Ravi Kumar, Design and implementation of intelligent virtual laboratory using RASA framework, Materials Today: Proceedings, 2021, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.01.226>.
- B. Geetavani, M Madhu Bala, Desineedi Rachita Jyothi, Gattu Rachana, Detection of tampered images using watermarking approach through linear interpolation, Materials Today: Proceedings, 2021, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.01.516>.
- Madhu Bala Myneni, Rohit Dandamudi, “Harvesting railway passenger opinions on multi themes by using social graph clustering”, Journal of Rail Transport Planning & Management, Volume 17, March 2021, Pages 100236, ISSN 2210-9706. <https://doi.org/10.1016/j.jrtpm.2019.100151>. (ESCI&Scopus, Impact score:3.19)
- Madhu Bala Myneni, Sai Ruchith Reddy Ginnavaram, B Padmaja, “An Intelligent Assistive VR Tool for Elderly People with Mild Cognitive Impairment: VR Components and Applications,” International Journal of Advanced Science and Technology, Vol 29, No 04 (2, Feb, 2020). (Scopus)
- Padmaja, B., Myneni, M.B., Krishna Rao Patro, E., A comparison on visual prediction models for MAMO (multi activity-multi object) recognition using deep learning, Journal of Big Data,7, 2020. <https://doi.org/10.1186/s40537-020-00296-8> (SCIE, Impact factor:10.835)
- Madhu Bala Myneni“Neoteric Restaurant E-Reservation by Using Multi Attribute Hybrid Recommendation System, International Journal of Pure and Applied Mathematics, Volume 120, No. 6 2018, 3181-3192, 2018.
- Myneni Madhu Bala and Dandamudi Rohit, Harvesting Railway Passenger Opinions on Multi-themes through Micro Blog Data (2018). International Journal of Computational Intelligence & IoT, Vol. 1, No. 2018. SSRN digital library <https://ssrn.com/abstract=3354368>
- Madhu Bala Myneni, L V Narasimha Prasad, D Naveen Kumar, “Intelligent Hybrid Cloud Data Hosting Services with Effective Cost and High Availability”, International Journal of Electrical and Computer Engineering, 7(4), pp. 31-36, August 2017. (Scopus)
- Madhu Bala Myneni, L V Narasimha Prasad, G Geetha, “Automatic Assessment of Floods Impact Using Twitter Data”, International Journal of Electrical and Computer Engineering, 8(5), pp. 1228-1238, 2017. (Scopus)
- Myneni Madhu Bala, M. Srinivasa Rao and M Ramesh Babu. “Sentiment Trends on Natural Disasters using Location Based Twitter Opinion Mining”, International Journal of Civil Engineering and Technology, 8(8), 2017, pp. 09–19. <http://www.iaeme.com/IJCIET/issues.asp?JType=IJCIET&VType=8&IType=8> (Scopus)
- Myneni Madhu Bala and K. Navya, “Text Mining on Real Time Twitter Data for Disaster Response”. International Journal of Civil Engineering and Technology, 8(8), 2017, pp. 20–29.

- <http://www.iaeme.com/IJCIET/issues.asp?JType=IJCIET&VType=8&IType=8> (Scopus)
- Madhu Bala Myneni, L V Narasimha Prasad, J Sirisha Devi, “A Framework for Semantic Level Social Sentiment Analysis Model”, *Journal of Theoretical and Applied Information Technology*, August 2017, 95(16), pp. 4049-4058, ISSN: 1992-8645. (Scopus)
- Madhu Bala Myneni, P V Narasimha Rao, K Radhika, “A Novel Framework for Dynamic Social Sentiment Analysis”, *International Journal of Control Theory and Applications*, 10(39), pp. 207-214, September 2017.
- Sharanya D, K Rajendra Prasad, M Madhu Bala, “Design the Efficiency Public Auditing Mechanism Using Identity Privacy and Traceability Concepts”, *International Journal of Advanced Research Foundation*, 3(11), pp: 001-003, November, 2016.
- Madhu Bala Myneni et al., “Secure Login for using Graphical Password with CAPTCHA”, *International Journal of Engineering Science and Computing (IJESC)*, 5(6), 2015, pp:2000-2003.
- Madhu Bala Myneni et al., “Reliable Data Collection in wireless sensor networks and separate out of attacker reaction”, *International Journal of Research in Computer Science Engineering*, 5(6), 2015, pp. 3863-3868.
- Madhu Bala Myneni, M. Seetha, “Automatic Label Prediction for Scene Categorization in Computer Vision: Issues and Challenges”, *CSI Communications*, 38(10), 2014, pp.23-26, Impact factor:1.925, ISSN 0970-647X.
- Madhu Bala Myneni et al., “Optimum allocation of health-care resources through simulation”, *Bio Science Research Bulletin*, 28(1), 2013, pp.13-19, Impact factor:0.125.
- Madhu Bala Myneni, M. Seetha, “Comparative Analysis on Scene Image Classification using Selected Hybrid Features”, *International Journal of computer application*, 63(2), 2013, pp.44-47. ISSN 0975-8887.
- Madhu Bala Myneni, M. Seetha, “Feature Extraction for Image Retrieval using Image Mining Techniques”, *Research Inventy: International Journal of Engineering And Science*, 1(8), 2012, pp.18-24, Impact factor:1.89, ISSN: 2278-4721.
- Madhu Bala Myneni, M. Seetha, “Feature integration for image information retrieval using image mining techniques”, *International Journal of Computer Engineering and Technology*, 3(3), 2012, pp.273-281, Impact factor:3.9, ISSN: 0976 – 6375(Online).
- Madhu Bala Myneni et al., “A resource allocation model for hospital administration”, *Bio Science Research Bulletin*, 27(2), 2011, pp.45-54, Impact factor: 0.125, ISSN: 2320-3161.
- Madhubala Myneni, S.K.Mohan Rao, G. RavindraBabu, “Classification of IRS LISS-III images by using artificial neural networks”, *International Journal of computer application*, 3(2),2010,pp.152-157, ISSN 0975-8887. Impact factor: 2.31.
- Madhu Bala Myneni et al., “Multispectral Satellite Image Classification using Artificial Neural Networks”, *International Journal of Information Technology and Management Research*, 1(2), 2009, pp:77-86.
- Exploration of issues, challenges, and latest developments in autonomous cars *Journal of Big Data*.Vol. 10 No. 61 (2023). ISSN: 2196-1115, IF: 11.12 SCIE & SCOPUS

5.8. Papers presented at National / International Conferences :

- Akkineni, H., Madhubala, M., Nallamothe, M., Takellapati, V.S. (2023). Polarity Identification from Micro Blogs Using Multimodal Sentiment Analysis. In: Bhateja, V., Mohanty, J.R., Flores Fuentes, W., Maharatna, K. (eds) *Communication, Software and Networks. Lecture Notes in*

Networks and Systems, vol 493. Springer, Singapore. https://doi.org/10.1007/978-981-19-4990-6_45(Scopus)

- Deep Learning based Face-mask Detection with Alarm System, ICIET-2022. Deep Learning based Face-mask Detection with Alarm System, ICIET-2022.
- Y. Sowjanya and M. M. Bala, "Comparison of Semantic Web Data Performance Using Virtual and Cloud Services," 2021 5th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2021, pp. 1456-1459, doi: 10.1109/ICECA52323.2021.9675905. (Scopus)
- Myneni Madhu Bala, S Siva Abhishek, A Siddharth, P Krishna Vamshi, Implementation of Mood Based E-Learning platform with Facial Emotion Recognition, 10th International Conference on Computing, Communication and Sensor Networks (CCSN2021), 2nd to 4th October, 2021, NIT Rourkela, Odisha.
- Myneni Madhu Bala, M Sai Manikanta, R Sai Keerthana, Implementation of Community Detection using DBSCAN Algorithm, 10th International Conference on Computing, Communication and Sensor Networks (CCSN2021), 2nd to 4th October, 2021, NIT Rourkela, Odisha.
- Myneni Madhu Bala, Sai Sravan Kothacheruvu, Blind's Bib: An Invention of Wearable Aid Prototype, 10th International Conference on Computing, Communication and Sensor Networks (CCSN2021), 2nd to 4th October, 2021, NIT Rourkela, Odisha.
- Madhu Bala M., Keerthana C., Pallavi Raj D., Prashanthi K. (2021) Groundwater Level Analytics for Effective Water Level Predictions and Visualization of the Patterns. In: Kiran Mai C., Kiranmayee B.V., Favorskaya M.N., Chandra Satapathy S., Raju K.S. (eds) Proceedings of International Conference on Advances in Computer Engineering and Communication Systems. Learning and Analytics in Intelligent Systems, vol 20. Springer, Singapore. https://doi.org/10.1007/978-981-15-9293-5_23
- Rohit A., Padmaja B., Vinay Kumar K., Chandana T., Madhu Bala M. (2021) Evaluation of Deep Learning Models in the Prediction of Lung Disease(Pneumonia). In: Jeena Jacob I., Kolandapalayam Shanmugam S., Piramuthu S., Falkowski-Gilski P. (eds) Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-15-8530-2_18(Scopus)
- Telukunta, Jay Karan, and Myneni Madhu Bala. "A Comparison of Classical Machine Learning Approaches for Early Structural Damage Identification." Machine Learning Technologies and Applications: Proceedings of ICACECS 2020 (2021): 141.
- Dandamudi, Rohit and Myneni, Madhu Bala, A Smart Personalized Learning Environment Through Social Q&A System (December 4, 2020). e-journal - First Pan IIT International Management Conference – 2018, Available at SSRN: <https://ssrn.com/abstract=3742948> or <http://dx.doi.org/10.2139/ssrn.3742948>
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5.9. Sponsored Research Projects:

S.No	Title	Agency	Period Sanctioned Date	Grant amount Rs. In Lakhs	Ongoing / Completed
1	Tech Mining: Anticipating Innovation Pathways Through Bibliometric Analysis for Sustainable Smart Cities File No: DST / NSTMIS / 05 / 294 / 2017-18	Department of Science and Technology (DST)	19 December, 2018	25.64	Completed
2	FDP on Advanced Pedagogy and digital tools in Engineering education Ref. No: 34-67/87/FDC/FDP/P-1/ 2019-20	Faculty Development Program (FDP), AICTE	30 July, 2020	4.66	Completed
3	STTP on Advances in Computing using Emerging Technologies in Smart Environment Ref. No: 34-5/188/RIFD/STTP/Policy-1/2018-19	Short-Term Training Program (STTP) -AICTE	12 December, 2019	2.00	Completed
4	Enhancing with High Performance Computational Facility for Machine Learning in Computer Vision F No: 9-86/RIFD/MOD/Policy-1/2018-19	Modernisation & Removal of Obsolescence (MODROBS) – AICTE	03 December, 2019	10.00	Completed
5	ATAL FDP on Data Sciences Application Number: 1584162567	Faculty Development Program (FDP), ATAL-AICTE	4 November, 2020	0.93	Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1	2-year Diploma Technical Book Title: Introduction to database systems: Theory and Practical	Technical Book Authoring (TBW) - AICTE	August, 2022	1.50	Completed

6. Awards / Honors received:

- Women Leadership Award in Leadership excellence 2023 from CSI Hyderabad Chapter.
- Best Women Dean of the Year in IIWA2022 by GISR Foundation.

- GHC Faculty Scholarship to attend the 2021 Virtual Grace Hopper Celebration(vGHC) from 27 September to 1 October, 2021.
- Sarvothama Acharya Puraskar – National Award by Indian Server in association with IT Association of Andhra Pradesh and Telangana on 2 October 2019.
- Felicitated as “IWN Unsung Hero” for the year 2019-20 by CII-IWN on 25 October 2019.
- Recognized as a subject expert of the AICTE Student Learning Assessment (SLA) project.
- Recognized as Jury Member (Session Chair and Evaluator) and Power judge of the Grand finale of Toyathon 2021, MIC-AICTE
- Recognized as SPOC of Smart India Hackathon (SIH – 2020) MHRD - AICTE
- Recognized as an expert member in the Incubation centre of IIC, MHRD
- Invited by Department of Science and Technology (DST) as Women Technocrat for Brain Storming Session (BSS) on "Empowerment of Women Technocrats in R&D with special reference to Manufacturing Sector".
- Invited by Department of Science and Technology to participate in Interdisciplinary Cyber-Physical Systems – DST.

7. **Motto:** Teamwork makes what's impossible to do alone possible.

8. Membership:

ISTE-Life Time, LM64546

IEEE-Membership, 96417786

CSI-Member 5023220033

9. Patents:

1. Expert Feedback System and Method to Enhance Services of Indian Railways, Patent Application No. 201741019214, Filed on 11 July 2017, Published on 6 July 2018.
2. IOT based System and Method to Customize Game Which can be Played by Visually Impaired Persons, Patent Application No. 201841039871, Filed on 22 October 2018 and Published on 24 April 2020.
3. Ms. B Padmaja, Dr. M Madhu Bala, Mr. E Krishna Rao Patro, "Programming data structures and algorithms through python", Copyright ROC No: L - 15443/2018, Granted.
4. M Madhubala, Ms. B Padmaja, Mr. M V Adithya Nag, "Learning Analytics on Cloud Based Employability Skill Test Series: Data on Proficiency Tests Performance of Undergraduate Engineering Students", Copyright ROC No: L - 76920/2018, Granted.

10. Certifications:

- Certified on Neural Networks and Deep Learning, Online Course through Coursera, 7.5.2020.
- Certification on R Programming Online Course through Coursera, 2016
- Certified as Master Trainer in job role **Associate Analytics** by NASSCOM in 2016.