

Name of Faculty Dr. M VENU GOPALACHARI  
 Designation Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 03 - 12 - 2012  
 E-mail mvenugopalachari\_it@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE)	Awarded
PG	M. Tech. (CSE)	Distinction
UG	B. Tech. (CSE)	Second

#### Work Experience

Teaching 15 Years  
 Research 06 years  
 Industry --  
 Others --

Area of Specialization Data Analytics, Artificial Intelligence, Web Mining, ML/DL

Professional Memberships Member, IAENG Number: 195209  
 Life Member, ISTE Number: LM79563

Responsibilities held at Institution Level  
 1. Worked as Co-In-Charge, in Academic and Examination Center from 20-10-2017 to 28-2-2022.  
 2. Member, NITTTR Committee

Responsibilities held at Department Level  
 1. NBA Coordinator for BE(IT)  
 2. Member BoS of BE(IT), BE(AI&DS), M.Tech (AI&DS)  
 3. PG Coordinator for M.Tech (AI&DS)  
 4. Member, Course Expert Group, Department of IT

Research Guidance  
 1. One scholar awarded PhD at Osmania University in March 2023.  
 2. 10 M.Tech PG scholars awarded.  
 3. One scholar pursuing PhD in Osmania University.

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Cloud Computing, Machine Learning, Social Network Analytics, Data Structures and Algorithms, Social Media Analytics, Programming and Problem Solving, Object Oriented Programming using C++, Data Science and Big Data Analytics, Semantic Web, Artificial Neural Networks.

No. of Papers Published National Journals – 3 International Journals – 30  
 National Conference – 02 International Conference – 14

Projects Carried out --

Patents  
 1. Published a patent titled "Woman Safety Hidden Malicious Chip Using IoT- Based Location Tracking Technology" with patent number: 2021101341 by IP Australia, on 28<sup>th</sup> April 2021.

2. Published a patent titled "AI Enabled Framework for Detection of Cardiovascular Diseases", Application No. 202241032967, Published on 28<sup>th</sup> Jun 2022, IP India.

Technology Transfer --

1. Session Chair in International Conference on "International Conference on Robotics and Cyber Physical Machines" (ICRCPM), Conducted on 28<sup>th</sup> & 29<sup>th</sup> of April 2023.
2. Resource Person for one week MDP program titled "Analytics, Data Driven Decision making", conducted during 13<sup>th</sup> to 17<sup>th</sup> March 2023 in CBIT, Hyderabad.

Invited Speaker

3. Session Chair in AICTE sponsored International Conference on Advances in Computing and Communication Technologies (ICACCT-2018) conducted by CMR College of Engineering and Technology, Hyderabad during 21<sup>st</sup> and 22<sup>nd</sup> December 2018.
4. Guest lecture on "Overview of Clustering Techniques", at VNR Vignana Jyothi Institute of Engineering and Technology,

Hyderabad on 07th April 2017.

5. Resource person for One-Week University level NSS Adventure Camp on "personality Development through Technical Knowledge", conducted from 10th to 15th April 2017 Organized by NSS Cell, JNTUH.
  6. Resource person for a One week Skill Enhancement Training for Future Professionals on "Big Data Analytics", conducted from 21st to 26th February 2017 at JNTUH College of Engineering conducted by NSS, JNTUH.
  7. Resource person for a One week Faculty Development Program on "Emerging Trends, Issues and Challenges in Big Data & Cloud Computing" on "Analytics through R", conducted by CBIT, Hyderabad, during 20th -25th Feb. 2017".
  8. Chaired a Session as a Judge for the event Quiz in State NSS Youth Festival organized by NSS Cell, JNTUH during 7th & 8th Feb, 2017.
  9. Chaired a Session as a Judge for the event Quiz in University Level Youth Festival, Youth for Skill & Start-up India, organized by NSS Cell, JNTUH during 4th Feb 2017 at JNTUH
  10. Chaired a session as a Judge for the event Quiz in University Level Young Voters Festival, organized by NSS Cell, JNTUH during 22nd Jan, 2017.
1. Published a Book Chapter Titled, "Real Time Aspect based sentiment analysis on consumer reviews", in Proceedings of 3rd International Conference on Data Engineering and Communication Technology (ICDECT-2K19), Advances in Intelligent Systems and Computing, SPRINGER, Volume 1079, Pp 801-810, 2019.
  2. Published a Book Titled "Hybrid Recommender System for Web Usage Mining", ISBN-13:978-3-330-05556-8, Informatics, IT category, Lambert Academic Publishing, 2017.

No. of Books/Chapter Published with details

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**):

1. Organized International Conference ETCTA 2021 conducted by CBIT, Hyderabad during 03rd and 04th April 2021.
2. One week International Workshop on "Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms" conducted by Department of CSE, CBIT(A), Hyderabad during 24 - 28 June, 2021.
3. One week AICTE-ATAL FDP on "Recent Trends in Digital Image Processing" conducted by Poornima Institute Of Engineering & Technology during 07th to 11th June 2021.
4. One week FDP on "IPR and Patent Prosecution" conducted by Dept of CSE, MVSREC, Hyderabad during 24<sup>th</sup> to 28<sup>th</sup> May 2021.
5. One week AICTE-ATAL FDP on "Geoinformatics and Web Technologies" conducted by Banasthali VidyaPith during 18th to 22nd May 2021.
6. One week Online Continuing Education Program on "Deep Learning and its applications" conducted by Dept of CSE, NITW during 26<sup>th</sup> to 30<sup>th</sup> April 2021.
7. One week FDP on "Research Writing" conducted by Department of Management Studies, SRM University, Chennai during 19<sup>th</sup> to 23<sup>rd</sup> April 2021.
8. One week Online Orientation Training Programme for Mentors organized under National Initiative for Technical Teachers Training, AICTE, India during 01st to 05th February 2021.
9. One Week Short Term Training Program on "Data Science for Bigdata Analytics in Cloud using Advanced Tools" organized by Department of Computer Science and Engineering, Chaitanya Bharathi Institute of Technology (Autonomous) during 23rd - 28th November 2020
10. One week AICTE-ATAL FDP on "Block Chain" during 15th June to 19th June 2020 conducted by IIIT Vadodara during 15th June to 19th June 2020.
11. One week A five day FDP on "Artificial Intelligence" during 22nd to 26th May 2020 conducted by CBIT and Brain-O-Vision Pvt Ltd during 22nd to 26th May 2020.
12. One week AICTE-ATAL FDP on "Data Science" during 25th May to 29th May 2020 conducted by NITTTR, Chandigarh during 25th May to 29th May 2020.
13. One Week AICTE ATAL FDP conducted by One week AICTE-ATAL FDP on "Artificial Intelligence" conducted by IIIT Nagpur during 16th May to 20th May 2020
14. Two week EICT IIT Roorkee Online FDP on "Deep Learning and its Applications" from May 04 - May 13, 2020.
15. Successfully Completed "Neural Networks and Deep Learning" an online non-credit course authorized by deeplearning.ai and offered through Coursera on 3-05-2020
16. Successfully Completed "Convolutional Neural Networks" an online non-credit course authorized by deeplearning.ai and offered through Coursera on 3-05-2020
17. Successfully Completed "Sequence Models" an online non-credit course authorized by deeplearning.ai and offered through Coursera on 3-05-2020

18. Organized as a convener for national technical fest "HEADSTART-2017" in CBIT, Hyderabad during 15<sup>th</sup> and 16<sup>th</sup> September 2017.
19. Organized a Three day workshop as a coordinator on "OOP through C++" in CBIT, Hyderabad during 19th to 21st June 2017.
20. Organized a Two day workshop as a coordinator on "Emerging trends in computer science" in CBIT, Hyderabad during 30th & 31st March 2017.
21. A Two day International workshop on "Big data and machine learning" from 27th & 28th March 2017, conducted at CBIT, Hyderabad.
22. A One week Faculty Development Program on "Emerging Trends, Issues and Challenges in Big Data & Cloud Computing", conducted by CBIT, Hyderabad, during 20th -25th Feb. 2017.
23. A One Week Faculty Development Program on "Intellectual Property Rights". Organized by CBIT, Hyderabad from 19th to 24th December 2016.
24. A Two day national work shop on "Cloud Computing" from 7th to 8th September 2016 conducted at CBIT, Hyderabad.
25. A Two Week ISTE-STTP - Refresher Course/FDP in "Emerging Trends in Mobile and Cloud Computing" conducted in CBIT, Hyderabad during 29th Dec, 2014 to 9th Jan, 2015.
26. A Two day workshop on "research methodologies and tools" by CBIT Hyderabad on 29th and 30th November 2013.
27. A One Week Faculty Development Program, "Faculty Enablement Program" by Infosys at Swarnandhra College of Engg, Narsapuram from 8th to 12th July 2013.
28. A Two day Workshop on "Cloud computing and its applications" by INFOSYS Train The trainer program at AITAM, Tekkali, on 21st and 22nd February 2013.
29. A one day Faculty Development Program on "project management skills" at Cognizant Technical Solutions Ltd., Hyderabad on 24th May 2013.
30. A Two day work shop on "leading from the heart", conducted in CBIT, Hyderabad during 12th & 13th March 2013. A Three day workshop on "Mobile application using android" by Infosys at CBIT Hyderabad from 19th to 21st March 2013.
31. A One day seminar on "Analytics with Big data" at MJCET, Hyderabad on 27th July 2013.
32. A Two Week Staff Development Program, "Advanced Data Mining Techniques", sponsored by AICTE conducted by VNR VJIT from May 14th to 26th 2012.
33. A One Week "In house faculty development program", organized by CBIT, Hyderabad from 24th to 29th December 2012.
34. A one day Faculty Development Workshop on "Testing Concepts", conducted by Cognizant Technical Solutions Ltd., Hyderabad on 30th March 2012.
35. A Three day work shop on "Object oriented analysis and design using UML" by IBM software education on 9th to 11th May 2012.
36. One day workshop on "Microsoft Windows Internals", organized by Microsoft & UGC-ASC, JNTU on 17th November 2008.
37. A Three day workshop on "Database Concepts through ORACLE", organized by JNTU, Kakinada under TEQIP program, 13th to 15th February 2008.
38. A Three day workshop on "Data Warehousing and Business Intelligence Emphasis on Industry Oriented Research", conducted by JNTU Kakinada under TEQIP Program, 9th to 11th January 2008.
39. A Two day National level workshop on "Data Mining", conducted by BVRIT, Hyderabad during 29th & 30th August 2008.
40. A Two day National level workshop on "MATLAB for Engineering Applications", by BVRIT and Cranes Software International Ltd., during 26th & 27th August 2008.

Details of Journal Publications/ Conferences (**National and International**):

#### **International Journal**

1. Bhukya Madhu, M. Venu Gopalachari, Ramdas Vankdothu, Arun Kumar Silivery, Veerender Aerranagula, "Intrusion detection models for IOT networks via deep learning approaches", Measurement: Sensors, Elsevier, Volume 25, 2023, 100641, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2022.100641>, SCI, Scopus, Web of Science Indexed
2. Vatambeti, R., Divya, N.S., Jalla, H.R., Gopalachari, M.V. (2022). Attack detection using a lightweight blockchain based elliptic curve digital signature algorithm in cyber systems. International Journal of Safety and Security Engineering, Vol. 12, No. 6, pp. 745-753. <https://doi.org/10.18280/ijss.120611>, SCI, Scopus, Web of Science Indexed
3. Morarjee Kolla, Rupesh Kumar Mishra, S Zahoor ul Huq, Y. Vijayalata, M Venu Gopalachari, KazyNoor-e-Alam Siddiquee, "CNN-Based Brain Tumor Detection Model Using Local Binary Pattern and Multilayered SVM Classifier", Computational Intelligence and Neuroscience, vol. 2022, Article ID 9015778, 9 pages, June, 2022. <https://doi.org/10.1155/2022/9015778>, SCI, Scopus, Web of Science Indexed
4. M Venu Gopalachari, Morarjee Kolla, Rupesh Kumar Mishra, Zarin Tasneem, "Design and Implementation of Brain Tumor Segmentation and Detection Using a Novel Woelfel Filter and Morphological Segmentation", Complexity, vol. 2022, Article ID 6985927, 9 pages, June, 2022. <https://doi.org/10.1155/2022/6985927>, SCI, Scopus, Web of Science Indexed
5. P. Vasanth Sena, Sammual Porika, M. Venu Gopalachari, "A Mining Approach for Water Pipe line Leakage Detection and Localization", Design Engineering, pp. 16259-16272, Vol 2021(08), Nov. 2021, <https://thedesigengineering.com/index.php/DE/article/view/6771>.
6. M Venu Gopalachari, P Hima Bindu, S. Rakesh (2021), "Minimal Influential Node Set Detection in Social Networks", Journal of Emerging Technologies and Innovative Research, Volume 8, Issue 6.
7. S. Rakesh, L. Manideep, M. Shrutha Keerthi, M. Venu Gopalachari (2021), "Brain Tumor Detection with Deep Learning on MRI Image Dataset", International Journal for Research in Applied Science & Engineering

Technology, Volume 9, Issue 6.

8. M. Venu Gopalachari, Pavan Pawar, Nishtharth Kasireddy, S Rakesh (2021), "Hashtag Generation with Transfer Learning", International Journal for Research in Applied Science & Engineering Technology, Volume 9, Issue 6.
9. M Venu Gopalachari, Udumala Vineeth, Zohaib Abdullah Ahmed (2021), "A Deep Learning Approach For Criminal Prediction Analysis", Aegaeum Journal, ISSN: 0776-3808, Volume 9, Issue 6, pp:213-218.
10. A.Mohan, Uppala Shravya, M.venugopalachari (2021), "To Forecast Hospital Admissions From The Emergency Department Using Data Mining Techniques", Journal of Interdisciplinary Cycle Research, ISSN NO: 0022-1945, Volume 13, Issue 4, Pp:1058-1065.
11. B.Sateesh, M Venu Gopalachari (2020), "Internet Of Things - An Emerging Platform For Innovation", International journal of analytical and experimental modal analysis, ISSN NO:0886-9367, Volume12, Issue 12, Pp:2783-2790.
12. Neelkanth Poosa, Pranav, M Venu Gopalachari (2020), "Effective and Dynamic Multi Domain Keyword Extraction through Word Vectors", International Journal of Advanced Science and Technology, Vol.29, No. 3, Pp. 10485 – 10496.
13. Anusha parupudi, M Venu Gopalachari, Y.Rama Devi (2020), "An Interaction Based Influence Propagation Model for Detecting Active Communities in Social Networks", International Journal of Advanced Science and Technology, Vol.29, No.4.
14. M. Venu Gopalachari, A Mohan, B. Kumar (2020), "Conceptual Model of Hybrid Recommender using Big Data and Machine Learning Approach", International Journal of Scientific Research in Science and Technology, Volume 7, Issue 3, May, 2020.
15. M. Venu Gopalachari (2018), "DBT Recommender: Improved Trustworthiness of Ratings through De-Biasing Tendency of Users", International Journal of Intelligent Engineering and Systems (IJIES), Vol.11, No.2.
16. M. Venu Gopalachari (2018), "Effective Automation in Aspect Based Review System", International Journal of Innovative Research & Studies, Vol.8, Issue 4, ISSN : 2319-9725.
17. Nazima Khanam, M. Venu Gopalachari (2017), "Cross Domain Collaborative Filtering Recommender using Probabilistic Matrix Factorization", International Journal of Advanced Research in Computer Science, Vol. 8, No. 9.
18. M. Venu Gopalachari, N. Lavanya (2017), "Location Aware Social Networks User Profiling using Big Data analytics", International Journal of Intelligent Engineering and Systems (IJIES), Vol.10, No.6.
19. M. Venu Gopalachari, P. Sammulal (2017), "Meta Data based Conceptualization and Temporal Semantics in Hybrid Recommender", International Journal of Rough Sets and Data Analysis (IJRSDA), IJRSDA: Volume 4, Issue 4, Article 4, Pp No:48-65.
20. P. Vikas Kumar, M. Venu Gopalachari (2017), "A Review on Prediction of Missing Data in Multivariable Time Series", International Journal of Computer Application (IJCA), Vol. 6, N0. 7.
21. M. Venu Gopalachari (2017), "A Survey on Caching in Distributed Small Cell Networks", International Journal on Future Revolution in Computer Science & Communication Engineering, ISSN: 2454-4248 Volume: 3, Issue: 8, 240 – 243.
22. M. Venu Gopalachari, Kiran Kumar Varaka (2017), "Collaborative Filtering Recommender Systems Using Semantics", International Journal of Computer Engineering and Applications, ISSN:2321-3469, Vol. 10, No. 7.
23. M. Venu Gopalachari, Kiran Kumar Varaka (2017), "A Review on merits and demerits of Collaborative Filtering Approaches", International Journal of Recent Trends in Engineering & Research (IJRTER) Volume 03, Issue 1, [ISSN: 2455-1457].
24. M. Venu Gopalachari, Kiran Kumar Varaka (2016), "Personalized Aspect based Recommender System in Social Networks", International Journal of Recent Trends in Engineering & Research (IJRTER) Volume 02, Issue 11, [ISSN: 2455-1457], 563-569, 2016.
25. M. Venu Gopalachari, P. Sammulal (2016), "A hybrid approach to handle cold start in a recommender by exploiting latent factors", International Journal of Applied Engineering Research, SCOPUS indexed, Volume No. 11, Number 6, May 2016.
26. M. Venu Gopalachari (2016), "Web Service Recommender Systems: Methodologies, Merits and Demerits", International Journal on Future Revolution in Computer Science & Communication Engineering, ISSN: 2454-4248.
27. M. Venu Gopalachari (2016), "A Survey on Web Mining and Recommender Systems Variants", International Journal of Computer Engineering and Applications, ISSN:2321-3469, Vol. 10, No. 7.
28. M. Venu Gopalachari, P. Sammulal (2016), "An Effective Hybrid Recommender Using Metadata-based Conceptualization and Temporal Semantics", International Journal of Recent Contributions from Engineering, Science & IT, iJES, Volume 4, No.3, Pp:4-11, ISSN:2197-8581.
29. M. Venu Gopalachari, P. Sammulal (2016), "Personalized Context Aware Assignment Recommendations in E-Learning System", International Journal of Computer Applications, Volume 135, No.4.
30. M. Venu Gopalachari, P. Sammulal (2013), "A Survey on Semantic Web and Knowledge Processing", International Journal of Innovative Research in Computer and Communication Engineering, Vol.1, Issue 2, ISSN: 2320 – 9798.
31. P. Sammulal, M. Venu Gopalachari, A. Vinaya Babu (2008), "Effective Load Metric and Initial Job Placement for Dynamic load balancing in Cluster", Journal of Computer Science, Science Publications, Volume.4, No.1, Pp 72-79, 2008,ISSN: 1549-3636.
32. P. Sammulal, M. Venu Gopalachari, A. Vinaya Babu (2008), "Manifold Factors Sentient Load Balancing Mechanism for Cluster Computing", Journal of Technology Spectrum, Volume.3, No.1, Pp:37-42, ISSN: 0974 – 6854.

## International /National Conferences

1. Bhukya Madhu, M. Venu Gopalachari, "Classification of the Severity of Attacks on Internet of Things Networks", 2nd International Conference on Sentiment Analysis and Deep Learning (ICSADL 2022) on 16-17 June 2022, Advances in Intelligent Systems and Computing, Springer, conducted by Tribhuvan University, Nepal.
2. G. Kiran Kumar, M. Venu Gopalachari, S. Rakesh, "Melanoma Classification using Convolutional Network Networks", International Conference on Innovative Computing, Informatics and Advanced Communication Systems, (ICICIAC-2022) on 25-26 March 2022, AIP Publishers, Gokaraju Rangaraju Institute of Engineering and Technology. 2022.
3. S. Rakesh, M. Venu Gopalachari, G. Kiran Kumar, "Automatic Music Genre Classification using Deep Learning", International Conference on Innovative Computing, Informatics and Advanced Communication Systems, (ICICIAC-2022) on 25-26 March 2022, AIP Publishers, Gokaraju Rangaraju Institute of Engineering and Technology. 2022.
4. Kavati, I., Kumar, G.K., Gopalachari, M.V., Babu, E.S., Cheruku, R., Reddy, V.D. (2022). Non-invertible Cancellable Template for Fingerprint Biometric. In: , et al. Hybrid Intelligent Systems. HIS 2021. Lecture Notes in Networks and Systems, vol 420. Springer, Cham, ISBN: 978-3-030-96305-7, pp 615–624, [https://doi.org/10.1007/978-3-030-96305-7\\_57](https://doi.org/10.1007/978-3-030-96305-7_57)
5. Gupta, S., Agarwal, K., Venu Gopalachari, M. (2022). Smart Home Infrastructure with Blockchain-Based Cloud IoT for Secure and Scalable User Access. Proceedings of the International Conference on Paradigms of Communication held at the National Institute of Technology, Kurukshetra, India, during May 07–09, 2021, Computing and Data Sciences. Algorithms for Intelligent Systems, Springer, Singapore, ISBN:978-981-16-5747-4, 2022, pp 277–284, [https://doi.org/10.1007/978-981-16-5747-4\\_24](https://doi.org/10.1007/978-981-16-5747-4_24)
6. M Venu Gopalachari (2021), "Data Analytics Using Variational Autoencoder Using IoT", First International e-Conference on Management, Science and Technology Organized by Dept of CSE, RBVRR Women College, Hyderabad, 29th and 30th May 2021.
7. P. Vasanth Sena, P Sammulal, M Venu Gopalachari (2019), "A Mining Framework for Efficient Leakage detection and diagnosis in Water Supply System", in Second International Conference on Advances in Computing and Communication Technologies – ICACCT 2019, SPRINGER, held on 16th & 17th December 2019.

