

Field	Details
Name	Dr. Kumari Gubbala
Designation	Assistant Professor
Department	CSE
School	Engineering & Technology
Total Experience	17 Years
Qualification	Ph.D: CSE PG:CSE UG:IT
Areas of Specialization	Natural Language Processing
Research Publications	Total: 14 Scopus: 5 SCI: 1 Others: 8
Patents	Filed: 6
Funded Projects	
Consultancy	
Administrative Responsibilities	



Patents Published

- Dr. G. KUMARI, Title of the Invention: Advanced Innovative Technology Token Based Appointment Calling System in Hospitals Using RFID Technology, Application No.202341088691 A, Publication Date: 02/02/2024, India.
- Dr. G. KUMARI, Ms. A. ANUSHA, Dr.V SATHIYASUNTHARAM, Mr.SUNILKUMAR SINME, Mrs. M. ANUSHA, MS. T. USHA, Mrs. A. DURGABHAVANI, Title of the invention : Autonomous Based Controlled Mechanical Bottle Saline Level Alerting System Using IOT, Application No.202341088703 A, Publication Date : 02/02/2024, india.
- Dr. G .KUMARI, Ms. A. ANUSHA, Mrs. BENET MALAR, Mr. M. RAMASAMY, Dr.V.SATHIYASUNTHARAM , A. ANUSHA, Title of the invention : RFID Based an Intelligent Booth System to Automate the COVID Testing Method to Collect the Samples, Application No.202341088705 A, Publication Date : 02/02/2024, india.

- Dr.Kumari Gubbala , Dr.R.Mohandas, Udutala Mahender, Title of the invention: An IoT based health Monitoring System , Application No: 202341086313 A, Publication Date:12/01/2024,India.
- G. Kumari , A.Mary Sowjanya ,Bosubabu Sambana, Naveen kumar Mamidala Title of the invention :User Sentiment Analysis of Text, Image and Voice over social Media Posts using Deep Learning, Application No.202141052010 A, Publication Date: 26/11/2021,India.
- G. Kumari , Bosubabu Sambana, Naveen kumar Mamidala , , Dr.Priyanka Mishra ,Title of the invention:Women Safety Analysis in Indian Cities based on Social Networks using Artificial Intelligence ,Application No.202141044802 A, Publication Date: 15/10/2021,India.

Papers Published in Journals

- Kumari Gubbala , A Hybrid Convolutional neural network-recurrent neural network approach for breast cancer detection through Mask R-CNN and ARI-TFMOA optimization. International Journal of Electrical and Computer Engineering (IJECE). 15. 3084-3094. 10.11591/ijece.v15i3.pp3084-3094.
- Kumari Gubbala, M. Naveen Kumar, and A. Mary Sowjanya , AdaBoost based Random forest model for Emotion classification of Facial images, MethodsX. 2023 Dec 11:102422. Published online 20 23 Oct 14. doi: 10.1016/j.mex.2023.102422.
- Kumari Gubbala, Deep Learning based Multilingual Speech Synthesis using Multi Feature Fusion Methods, ACM Transactions on Asian and Low-Resource Language Information Processing, Published on 04 September 2023 (<https://dl.acm.org/doi/10.1145/3618110>).
- Kumari Gubbala, A.Mary Sowjanya,An integrated single framework for text, image and voice for sentiment mining of social media posts, Revue d'Intelligence Artificielle, Vol. 36, No. 3, pp. 381-386(2022). <https://doi.org/10.18280/ria.360305> .
- Kumari Gubbala, A. Mary Sowjanya, “Opinion Mining on COVID-19 Vaccination Tweets in Social Media Posts”, *Design Engineering* ,Vol. 21 , pp. 12910 - 12919, ISSN: 0011-9342 , Sep. 2021.
- Kumari Gubbala, A. Mary Sowjanya,“Self-Supervised Model for Speech Tasks with Hugging face Transformers”, Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 10, October 2021: 2273-2281.

International Conferences

- S. Tiruvayipati, V. Narayandas, A. Sesham, K. Gubbala, S. Akuthota and A. Maruthavanan, "AI-Driven Hybrid Energy Optimization Framework for Sustainable IoT Networks," 2025 5th International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN), Coimbatore, India, 2025, pp. 1322-1326, doi: 10.1109/ICECMSN68058.2025.11383385.
- A Significant and Debilitating Sequential CNN Algorithm for the Categorization of Complicated Diabetic Foot Ulcers , P. Sravanthi, M. Lavanya, Kumbala Pradeep Reddy, Kumari Gubbala and P. Shanmugaraja A Significant and Debilitating Sequential CNN Algorithm for the Categorization of Complicated Diabetic Foot Ulcers December 2, 2025. "Adaptive Technologies for Sustainable Growth," edited by Dr. Raja M. et al., published by Taylor & Francis Group, ISBN 978-1-041-24069-3, DOI: 10.1201/9781003739937-5.
- Kumari Gubbala ,Madhusudhan, Mudimela ,Reddy, A. & Sangeetha, S.. (2025). An Improved and Enhanced Technique for Tracking and Forecasting Heavy Metal Water Contamination. Proceedings of Sixth International Conference on Computer and Communication Technologies, Lecture Notes in Networks and Systems. LNNS, volume 1356, 10.1007/978-981-96-5238-9_56.
- Presented a paper on titled "Adversarial Training with Attention-Guided DCGAN for Robust Lung Segmentation in Medical Imaging" ,July 7-9 2025 IEEE Region 10 Symposium (TENSYP) Kumari Gubbala, "Adversarial Training with Attention-Guided DCGAN for Robust Lung Segmentation in Medical Imaging," 2025 IEEE Region 10 Symposium (TENSYP), Christchurch, New Zealand, 2025, pp. 1-6, doi: 10.1109/TENSYP63728.2025.11179918.
- Naveen Kumar, M., Gubbala, K., Mahender, U., Guna, H.K., Venkateswarlu, C. (2025). Unveiling Hate Speech: Identifying Toxic Comments Targeting Women in Online Social Media Posts. In: Patel, A., Kesswani, N., Mishra, M., Meher, P. (eds) Advances in Machine Learning and Big Data Analytics I. ICMLBDA 2023. Springer Proceedings in Mathematics & Statistics, vol 441. Springer, Cham. https://doi.org/10.1007/978-3-031-51338-1_12. (Springer)
- Presented a paper on titled "Sentimental Analysis to Predict Women Violence in India Using Machine Learning" On 6th International Conference on Soft Computing: Theories and Applications (SoCTA-21) held on December 17-19, 2021 organized by Indian Institute of Information Technology, Kota, Rajasthan, India (SPRINGER PROCEEDINGS: Lecture Notes in Networks and Systems indexed in Scopus). (Springer)
- Presented a paper on titled "Sentiment Classification of Tweets Using Ensemble Learning" on Online International Conference on Recent Innovations in Science, Engineering, Humanities and Management (SEHM-2020) held on 25th and 26th

September 2020 organized by Tirumala Engineering College ,Narasaraopeta, Andhra Pradesh .

- Presented a paper on titled “Fake Website Detection Using Regression” on 10th International Conference on Recent Trends in Engineering Science and Management (ICRTESM-17) held on 12th and 13th August 2017 organized by Newton’s Institute of Science & Technology, Guntur, Andhra Pradesh.

BOOKS PUBLISHED

- UNIX Programming Unleashed, A practical Guide published ISBN-13, 979-8272752499, Nov 3, 2025.