

Journal Publications (Impact Factor / Web of Science)

1. M.K.Nallakaruppan, Rajesh Kumar Dhanaraj, Shubhi Shukla, Karthika Subbaraj, Siddhesh Fuladi, Shitharth Selvarajan, Ahmed Alkhayyat and Nazik Alturki. "Reliable Secured Consumer IIoT Framework with Multi Layer Attack Interpretation and Prevention." IEEE Transactions on Consumer Electronics (2025) doi: 10.1109/TCE.2025.3571597. **(Q1, IF: 4.3)**
2. Muniyandi, Amutha Prabakar, Kayal Padmanandam, Karthika Subbaraj, Alaa O. Khadidos, Adil Omar Khadidos, N Deepa and Shitharth Selvarajan. "An intelligent emotion prediction system using improved sand cat optimization technique based on EEG signals." Sci Rep 15, 8782 (2025). <https://doi.org/10.1038/s41598-025-89904-2>. **(Q1, IF: 3.8)**
3. Vaishnavi Anand and S. Karthika, T2D Digital Twin: GV Analysis to Recommend Meds, Indian Journal of Natural Sciences, Vol.15 / Issue 85 / Aug / 2024, 77778- 77788 **(IF: 2.452, WoS Listed)**
4. S. Karthika, N. Radha, R. Swathika, Sharon Roshini, and Shanmuga Naveen, "Empowering Indian Legal NLP: Adversarial Sampling and Multi-label Classification with Large Language Models", Grenze International Journal of Engineering and Technology, 3523-3530, 2025, Volume 11 and Issue 1, ISSN 3523-3530(Online); 2395-5287(Print) **(UGC approved)**
5. Pavithra Manikandan, Aravind Vijayaraghavan, S. Karthika, R. Srinivasan, "Identification and Classification of Eye Movements in Bharatanatyam using Deep Learning Techniques", Grenze International Journal of Engineering and Technology, 566-573, 2023, Volume 9 and Issue 2, ISSN 2395-5295(Online); 2395-5287(Print) **(UGC approved)**
6. P.SuthanthiraDevi and S.Karthika, Curtail Depression on Twitter by Promoting Transformative Information during Infodemic, Grenze International Journal of Engineering and Technology, 2558-2563, 2023, Volume 9 and Issue 1, ISSN 2395-5295(Online); 2395-5287(Print) **(UGC approved)**
7. P Suthanthira Devi, S Karthika, Rumor Identification and Verification for Text in Social Media Content, *The Computer Journal*, Volume 65, Issue 2, February 2022, Pages 436–455, <https://doi.org/10.1093/comjnl/bxab118> **(Q1, IF: 1.5)**
8. R Geetha, S Karthika, Ponnurangam Kumaraguru, 'Will I Regret for This Tweet?'—Twitter User's Behavior Analysis System for Private Data Disclosure, *The Computer Journal*, Volume 65, Issue 2, February 2022, Pages 275–296, <https://doi.org/10.1093/comjnl/bxaa027> **(Q1, IF: 1.5)**
9. P Suthanthira Devi, S Karthika, RDNN: Rumor Detection Neural Network for Veracity Analysis in Social Media Text, KSII Transactions on Internet and Information Systems (TIIS) 3868-3888(21pages), 2022 **(Q3, IF:1.2)**<https://doi.org/10.3837/tiis.2022.12.005>

10. Suthanthiradevi, P. and Karthika, S. 'Veracity Assessment by Single and Multi-source Identification Algorithms During the Crisis'. Journal of Intelligent & Fuzzy Systems – Volume 42, issue 3, 2022 : 1421 – 1431. Doi: 10.3233/JIFS-210540 **(Q2, IF:1.7)**
11. Yugha, R., S. Chithra, N. Bhalaji, and S. Karthika. "Privacy Protected IoT-Blockchain using ZKP for Healthcare application." Journal of Control Engineering and Applied Informatics 24, no. 4 (2022): 76-87 **(Q4, IF: 0.4, Scopus)**
12. Geetha, R., Karthika, S., Sowmika, C. J., & Janani, B. M. (2021, May). Auto-Off ID: Automatic Detection of Offensive Language in Social Media. In Journal of Physics: Conference Series (Vol. 1911, No. 1, p. 012012). IOP Publishing Citation R Geetha et al 2021 J. Phys.: Conf. Ser. 1911 012012, DOI 10.1088/1742-6596/1911/1/012012 **(Scopus)**
13. Modelling a Behavioral Scoring System for Lending Loans using Twitter P Suthanthiradevi, K Srividhyasaradha, S Karthika ITM Web Conf. 37 01012 (2021) DOI: <https://doi.org/10.1051/itmconf/20213701012> **(IF: 0.543)**
14. Geetha, R., Karthika, S. & Kumaraguru, P. Tweet-scan-post: a system for analysis of sensitive private data disclosure in online social media. *Knowl Inf Syst* 63, 2365–2404 (2021). <https://doi.org/10.1007/s10115-021-01592-2> **(Q1, IF: 2.5)**
15. SuthanthiraDevi P, Karthika S, Sowmya K, Srinidhi S, Pavithra S, Detection of Propaganda from News Articles using Deep Learning", International Journal of Advanced Trends in Computer Science and Engineering(IJATCSE), Volume 9.Issue-3, May-June 2020, pp. 3500-3505, <https://doi.org/10.30534/ijatcse/2020/155932020> **(Scopus)**
16. R Geetha, S Karthika, N Pavithra, V Preethi, Tweedle: Sensitivity Check in Health-related Social Short Texts based on Regret Theory, Procedia Computer Science, Volume 165, 2019, Pages 663-675, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2020.01.062>. **(Scopus)**
17. P. Suthanthira Devi, S. Karthika, #CycloneGaja-Rank based Credibility Analysis System in social media during the crisis, Procedia Computer Science, Volume 165, 2019, Pages 684-690, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2020.01.064>. **(Scopus)**
18. Shabari Pragash L, Muthukannan K, Karthika S, "Predicting the Trend Of New User Generated Hashtag Using Twitter Features", February 2019, Volume 6, Issue 1, IJRAR (E-ISSN 2348-1269, P- ISSN 2349-5138) **(UGC approved)**
19. Sashaank Pejathaya Murali, Sangavi Vijayakumar, Rushvanth Bhaskar, Karthika S, "PREDPATROL (Predictive Patrolling): A Visualization Tool Based On Machine Learning For Crime Classification", February 2019, Volume 6, Issue 1, IJRAR (E-ISSN 2348-1269, P- ISSN 2349-5138) **(UGC approved)**
20. SuthanthiraDevi, P and Karthika, S, "A Novel Design Framework for Rumour Analysis in Twitter", International Journal of Recent Technology

- and Engineering Vol-7, Issue-6s3, Apr - 2019, pp. 23-26. Scopus Link: <https://www.scopus.com/sourceid/21100889873> **(Scopus)**
- 21.S. Nitheesh Prabu , Abhishek Pal, S. Sundar Ram, S. Karthika, "Impact Of Tweet Features And Machine-Learning Classifiers For Twitter Spam Detection", International Journal of Recent Technology and Engineering Vol-7, Issue-6s3, Apr - 2019, pp. 31-35. Scopus Link: <https://www.scopus.com/sourceid/21100889873> **(Scopus)**
 - 22.R. Geetha and S. Karthika Analysis of machine learning algorithm for identifying key actors in covert networks, February 2018, Disaster Advances 11(2):19-28 **(Q4, Scopus)**
 - 23.Subbaraj, Karthika and Sundan, Bose (2018) "MutatedSocioAgentSim (MSAS): semisupervised modelling of multiagent simulation to predict and detect the mutation in a camouflaged social network," *Turkish Journal of Electrical Engineering and Computer Sciences*: Vol. 26: No. 2, Article 27. <https://doi.org/10.3906/elk-1711-228> **(Q2, IF:1.2)**
 - 24.S. Mohanavalli, S. Karthika, Srividya, K.R.Uthayan, N. Sandya., "Categorization of Tweets Using Ensemble Classification Methods", International Journal of Engineering & Technology, vol.7 no.3.12, pp.722-725, July 2018. **(Scopus)**
 - 25.Ranjini V, Soundarya R, S Karthika, S Mohanavalli, Srividhya., "Identification of Trending Topics Using Periodically Collected Twitter Data", International Journal of Engineering & Technology, vol.7 no.3.12, pp.205-208, July 2018. **(Scopus)**
 - 26.S. Karthika & P.Saranya, "Email Analysis for Community Detection - Multi-User Perspective", International Journal of Advanced Engineering Research and Science, Vol-4, Issue-2, Feb- 2017, pp. 57 -61, <https://dx.doi.org/10.22161/ijaers.4.2.11>. **(Scopus)**
 - 27.Karthika, S., and M. Vinodhini. "Prediction of Links in Complex Networks." International Journal of Applied Engineering Research 10, no. 34: 2015. **(Scopus)**
 - 28.Karthika, S & Bose, S 2015, "What happens next? Prediction of disastrous links in covert network", in Disaster Advances, Vol 8, no. 4, pp 53-60. **(Q4, Scopus)**
 - 29.S. Karthika, S. Bose, A. Kannan, SpyNetMiner: An Outlier Analysis to Tag Elites in Clandestine Social Networks, International Journal of Data Warehousing and Mining (IJDWM) 10(1), Pages: 23, 2014, DOI: 10.4018/ijdw.2014010103 **(Q4, IF:0.5)**
 - 30.Karthika, S & Bose, S 2014, "Paralyzing Terrorist Network: Removing Pivot Actors and Predicting Second Leaders To Curb Future Disaster", Disaster Advances. 7(8):58-69, August 2014. **(Q4, Scopus)**
 - 31.Karthika, S., A. Kiruthiga, and S. Bose. "Dominant features identification for covert nodes in 9/11 attack using their profile." International Journal of Network Security & Its Applications 4, no. 4 (2012): 93. **(WJCI)**
 - 32.Bose, S, Karthika.S., A Comparative Study of Social Networking Approaches in Identifying the Covert Nodes (September 19, 2011).

International Journal on Web Service Computing (IJWSC), Vol.2, No.3,
September 2011, Available at SSRN: <https://ssrn.com/abstract=369016>.
(Q4, Scopus)