

with custom blockchain and machine learning classification algorithms. In experiment, it is found that minimum computation time taken by custom blockchain during the module execution. At present, the system framework is partly deployed. We plan to introduce a fully working real-time framework to identify and eliminate fake news as part of our future research.

References

- [1] Ahuja, Nishtha, and Shailender Kumar. "S-HAN: Hierarchical Attention Networks with Stacked Gated Recurrent Unit for Fake News Detection." 2020 8th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO). IEEE, 2020.
- [2] Ai, Songpu, et al. "Blockchain based Power Transaction Asynchronous Settlement System." 2020 IEEE 91st Vehicular Technology Conference (VTC2020-Spring). IEEE, 2020.
- [3] Akshay et al., "Fake News Detection," IEEE International Students' Conference on Electrical, Electronics and Computer Sciences, 2018.
- [4] Antoun, Wissam, et al. "State of the Art Models for Fake News Detection Tasks." 2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIoT). IEEE, 2020.
- [5] Arjun Mukherjee et al., "Spotting Fake Reviewer Groups in Consumer Reviews", International World Wide Web Conference, PP. 191-200, 20112. Committee (IW3C2).
- [6] Bhoir, Smita Vinit. "An Efficient FAKE NEWS DETECTOR." 2020 International Conference on Computer Communication and Informatics (ICCCI). IEEE, 2020
- [7] Desai, Harsh, Murat Kantarcioglu, and Lalana Kagal. "A Hybrid Blockchain Architecture for Privacy-Enabled and Accountable Auctions." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [8] Fitwi, Alem, Yu Chen, and Sencun Zhu. "A lightweight blockchain-based privacy protection for smart surveillance at the edge." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [9] Hasavari, Shirin, and Yeong Tae Song. "A secure and scalable data source for emergency medical care using blockchain technology." 2019 IEEE 17th International Conference on Software Engineering Research, Management and Applications (SERA). IEEE, 2019.
- [10] Hirlekar, Vaishali Vaibhav, and Arun Kumar. "Natural Language Processing based Online Fake News Detection Challenges—A Detailed Review." 2020 5th International Conference on Communication and Electronics Systems (ICES). IEEE, 2020.
- [11] Kai Shu et al., "Understanding User Profiles on Social Media for Fake News Detection", 2018 IEEE Conference on Multimedia Information Processing and Retrieval, PP. 430-435, 2018.
- [12] Kang, Seong Ku, Junyoung Hwang, and Hwanjo Yu. "Multi-Modal Component Embedding for Fake News Detection." 2020 14th International Conference on Ubiquitous Information Management and Communication (IMCOM). IEEE, 2020.
- [13] Kareem, Irfan, and Shahid Mahmood Awan. "Pakistani Media Fake News Classification using Machine Learning Classifiers." 2019 International Conference on Innovative Computing (ICIC). IEEE, 2019.
- [14] Latifi, Sobhan, Yunpeng Zhang, and Liang-Chieh Cheng. "Blockchain-Based Real Estate Market: One Method for Applying Blockchain Technology in Commercial Real Estate Market." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [15] Li, Suisheng, et al. "Blockchain Dividing Based on Node Community Clustering in Intelligent Manufacturing CPS." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [16] Mykhailo Granik et al., "Fake News Detection Using Naive Bayes Classifier", 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON), PP. 900-903, 2017.
- [17] Qawasmeh, Ethar, Mais Tawalbeh, and Malak Abdullah. "Automatic Identification of Fake News Using Deep Learning." 2019 Sixth International Conference on Social Networks Analysis, Management and Security (SNAMS). IEEE, 2019.
- [18] Sharma, Sunidhi, and Dilip Kumar Sharma. "Fake News Detection: A long way to go." 2019 4th International Conference on Information Systems and Computer Networks (ISCON). IEEE, 2019.
- [19] Traylor, Terry, Jeremy Straub, and Nicholas Snell. "Classifying fake news articles using natural language processing to identify in-article attribution as a supervised learning estimator." 2019 IEEE 13th International Conference on Semantic Computing (ICSC). IEEE, 2019.
- [20] Wang, Weiwei. "Data Security of SaaS Platform based on Blockchain and Decentralized Technology." 2020 International Conference on Inventive Computation Technologies (ICICT). IEEE, 2020.
- [21] Wang, Gang, et al. "Chainsplitter: Towards blockchain-based industrial iot architecture for supporting hierarchical storage." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [22] Xu, Ronghua, et al. "Blendmas: A blockchain-enabled decentralized microservices architecture for smart public safety." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.
- [23] Yaqing Wang et al., "EANN: Event Adversarial Neural Networks for Multi-Modal Fake News Detection", Association for Computing Machinery, 2018.
- [24] Youngkyung Seo et al., "FaNDeR: Fake News Detection Model Using Media Reliability", TENCON 2018 - 2018 IEEE Region 10 Conference, PP. 1834-1838, 2018.
- [25] Zhu, Saide, et al. "Hybrid Blockchain Design for Privacy Preserving Crowdsourcing Platform." 2019 IEEE International Conference on Blockchain (Blockchain). IEEE, 2019.

Authors Profile



Mr. Akash Dnyandeo Waghmare, completed B.E. and M.E. in Computer Science & Engineering. He is Working as Assistant Professor in SSBT's College of Engineering and Technology since 2013. He is pursuing his PhD in Computer Science & Engineering in Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. His areas of interest are Machine Learning, Sentiment Analysis, Data Analytics and Blockchain.



Dr. Girish Kumar Patnaik has completed PhD degree in Computer Science & Engineering from Motilal Nehru National Institute of Technology Allahabad. Currently he is working as Professor & Head, Department of Computer Engineering, SSBT's College of Engineering & Technology, Jalgaon. He is recognized PhD Guide in Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. He has published 28 research papers in reputed peer reviewed journals in addition to 10 papers in International Conferences to his credit. He is Senior Member in IEEE, Professional Member in ACM, Life member of ISTE and CSI. His research interests are Wireless Sensor Networks and Security, Machine Learning, Blockchain and Natural Language Processing.