

DAFTAR PUSTAKA

- [1] Statista, “1 Number of smartphone users in Indonesia from 2018 to 2028 (in millions) [Graph],” <https://www.statista.com/forecasts/266729/smartphone-users-in-indonesia>.
- [2] Rakuten Insight, “2 Major e-payment services used among respondents in Indonesia as of October 2022 [Graph].”
- [3] GoPay, “3 GoPay: Transfer & Payment,” Google Play Store. [Online].”
- [4] K. L. Tan, C. P. Lee, and K. M. Lim, “4 A Survey of Sentiment Analysis: Approaches, Datasets, and Future Research,” Apr. 01, 2023, *MDPI*. doi: 10.3390/app13074550.
- [5] N. C. Dang, M. N. Moreno-García, and F. De la Prieta, “5 Sentiment analysis based on deep learning: A comparative study,” *Electronics (Switzerland)*, vol. 9, no. 3, Mar. 2020, doi: 10.3390/electronics9030483.
- [6] W. Zhang, X. Li, Y. Deng, L. Bing, and W. Lam, “6 A Survey on Aspect-Based Sentiment Analysis: Tasks, Methods, and Challenges,” Mar. 2022, [Online]. Available: <http://arxiv.org/abs/2203.01054>
- [7] S. Behl, A. Rao, S. Aggarwal, S. Chadha, and H. S. Pannu, “7 Twitter for disaster relief through sentiment analysis for COVID-19 and natural hazard crises,” *International Journal of Disaster Risk Reduction*, vol. 55, Mar. 2021, doi: 10.1016/j.ijdrr.2021.102101.
- [8] A. E. O. Carosia, G. P. Coelho, and A. E. A. Silva, “8 Analyzing the Brazilian Financial Market through Portuguese Sentiment Analysis in Social Media,” *Applied Artificial Intelligence*, vol. 34, no. 1, pp. 1–19, Jan. 2020, doi: 10.1080/08839514.2019.1673037.
- [9] R. P. Aluna, I. N. Yulita, and R. Sudrajat, “9 Electronic News Sentiment Analysis Application to New Normal Policy During The Covid-19 Pandemic Using Fasttext And Machine Learning,” in *2021 International Conference on Artificial Intelligence and Big Data Analytics*, 2021, pp. 236–241. doi: 10.1109/ICAIBDA53487.2021.9689756.
- [10] I. Kaibi, E. H. Nfaoui, and H. Satori, “10 A Comparative Evaluation of Word Embeddings Techniques for Twitter Sentiment Analysis,” in *2019 International Conference on Wireless Technologies, Embedded and Intelligent Systems (WITS)*, 2019, pp. 1–4. doi: 10.1109/WITS.2019.8723864.
- [11] S. F. Sabbeh and H. A. Fasihuddin, “11 A Comparative Analysis of Word Embedding and Deep Learning for Arabic Sentiment Classification,” *Electronics (Basel)*, vol. 12, no. 6, 2023, doi: 10.3390/electronics12061425.
- [12] C. Wang, P. Nulty, and D. Lillis, “12 A Comparative Study on Word Embeddings in Deep Learning for Text Classification,” in *Proceedings of the 4th International Conference on Natural*

Language Processing and Information Retrieval, in NLPPIR '20. New York, NY, USA: Association for Computing Machinery, 2021, pp. 37–46. doi: 10.1145/3443279.3443304.

- [13] D. S. Asudani, N. K. Nagwani, and P. Singh, “13 Impact of word embedding models on text analytics in deep learning environment: a review,” *Artif Intell Rev*, vol. 56, no. 9, pp. 10345–10425, 2023, doi: 10.1007/s10462-023-10419-1.
- [14] S. H. Janjua, G. F. Siddiqui, M. A. Sindhu, and U. Rashid, “14 Multi-level aspect based sentiment classification of Twitter data: using hybrid approach in deep learning,” *PeerJ Comput Sci*, vol. 7, pp. 1–25, Apr. 2021, doi: 10.7717/peerj-cs.433.
- [15] N. Alturaief, H. Aljamaan, and M. Baslyman, “15 AWARE: Aspect-Based Sentiment Analysis Dataset of Apps Reviews for Requirements Elicitation,” in *Proceedings - 2021 36th IEEE/ACM International Conference on Automated Software Engineering Workshops, ASEW 2021*, Institute of Electrical and Electronics Engineers Inc., 2021, pp. 211–218. doi: 10.1109/ASEW52652.2021.00049.
- [16] S. Gunathilaka and N. De Silva, “16 Aspect-based Sentiment Analysis on Mobile Application Reviews,” in *22nd International Conference on Advances in ICT for Emerging Regions, ICTer 2022*, Institute of Electrical and Electronics Engineers Inc., 2022, pp. 183–188. doi: 10.1109/ICTer58063.2022.10024070.
- [17] T. Mikolov, K. Chen, G. Corrado, and J. Dean, “17 Efficient Estimation of Word Representations in Vector Space,” Jan. 2013, [Online]. Available: <http://arxiv.org/abs/1301.3781>
- [18] E. Grave, P. Bojanowski, P. Gupta, A. Joulin, and T. Mikolov, “18 Learning Word Vectors for 157 Languages,” *CoRR*, vol. abs/1802.06893, 2018, [Online]. Available: <http://arxiv.org/abs/1802.06893>
- [19] T. Mikolov, K. Chen, G. Corrado, and J. Dean, “19 Efficient Estimation of Word Representations in Vector Space,” Jan. 2013, [Online]. Available: <http://arxiv.org/abs/1301.3781>
- [20] N. Dilawar *et al.*, “20 Understanding citizen issues through reviews: A step towards data informed planning in Smart Cities,” *Applied Sciences (Switzerland)*, vol. 8, no. 9, Sep. 2018, doi: 10.3390/app8091589.
- [21] A. Hafeez *et al.*, “21 Addressing Imbalance Problem for Multi Label Classification of Scholarly Articles,” *IEEE Access*, vol. PP, p. 1, Jun. 2023, doi: 10.1109/ACCESS.2023.3293852.
- [22] R. Ali, J. Hussain, and S. W. Lee, “22 Multilayer perceptron-based self-care early prediction of children with disabilities,” *Digit Health*, vol. 9, Jan. 2023, doi: 10.1177/20552076231184054.
- [23] S. R. Dubey, S. K. Singh, and B. B. Chaudhuri, “23 Activation Functions in Deep Learning: A Comprehensive Survey and Benchmark,” Sep. 2021, [Online]. Available: <http://arxiv.org/abs/2109.14545>

- [24]. Usha Ruby Dr.A, “24 Binary cross entropy with deep learning technique for Image classification,” *International Journal of Advanced Trends in Computer Science and Engineering*, vol. 9, no. 4, pp. 5393–5397, Aug. 2020, doi: 10.30534/ijatcse/2020/175942020.
- [25] S. Chatterjee and A. Keprate, “25 Predicting Remaining Fatigue Life of Topside Piping Using Deep Learning,” in *2021 International Conference on Applied Artificial Intelligence, ICAPAI 2021*, Institute of Electrical and Electronics Engineers Inc., May 2021. doi: 10.1109/ICAPAI49758.2021.9462055.
- [26] A. I. Ramadhan and E. B. Setiawan, “26 Aspect-based Sentiment Analysis on Social Media Using Convolutional Neural Network (CNN) Method,” *Building of Informatics, Technology and Science (BITS)*, vol. 4, no. 4, Mar. 2023, doi: 10.47065/bits.v4i4.3103.
- [27] S. Riyanto, I. S. Sitanggang, T. Djatna, and T. D. Atikah, “27 Comparative Analysis using Various Performance Metrics in Imbalanced Data for Multi-class Text Classification.” [Online]. Available: <http://gcancer.org/pdr>
- [28] C. Padurariu and M. E. Breaban, “28 Dealing with data imbalance in text classification,” in *Procedia Computer Science*, Elsevier B.V., 2019, pp. 736–745. doi: 10.1016/j.procs.2019.09.229.
- [29] M. Hayaty, S. Muthmainah, and S. M. Ghufran, “29 Random and Synthetic Over-Sampling Approach to Resolve Data Imbalance in Classification,” *International Journal of Artificial Intelligence Research*, vol. 4, no. 2, p. 86, Jan. 2021, doi: 10.29099/ijair.v4i2.152.
- [30] M. R. Ilham and A. D. Laksito, “30 Comparative Analysis of Using Word Embedding in Deep Learning for Text Classification,” *Jurnal Riset Informatika*, vol. 5, no. 2, pp. 195–202, Mar. 2023, doi: 10.34288/jri.v5i2.507.
- [31] P. Mojumder, M. Hasan, M. F. Hossain, and K. M. A. Hasan, “31 A study of fasttext word embedding effects in document classification in bangla language,” in *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNCS*, Springer, 2020, pp. 441–453. doi: 10.1007/978-3-030-52856-0_35.
- [32] C. Yang, E. A. Fridgeirsson, J. A. Kors, J. M. Reps, and P. R. Rijnbeek, “32 Impact of random oversampling and random undersampling on the performance of prediction models developed using observational health data,” *J Big Data*, vol. 11, no. 1, Dec. 2024, doi: 10.1186/s40537-023-00857-7.