
BIBLIOGRAPHY

- [1] M. Ali, D.-H. Son, S.-H. Kang, and S.-R. Nam. An accurate ct saturation classification using a deep learning approach based on unsupervised feature extraction and supervised fine-tuning strategy. *Energies*, 10(11):1830, 2017.
- [2] A. Alsharef, K. Aggarwal, Sonia, D. Koundal, H. Alyami, and D. Ameyed. [retracted] an automated toxicity classification on social media using lstm and word embedding. *Computational intelligence and neuroscience*, 2022(1):8467349, 2022.
- [3] N. P. Arthamevia, M. D. Purbolaksono, et al. Aspect-based sentiment analysis in beauty product reviews using tf-idf and svm algorithm. In *2021 9th International Conference on Information and Communication Technology (ICoICT)*, pages 197–201. IEEE, 2021.
- [4] M. Birjali, M. Kasri, and A. Beni-Hssane. A comprehensive survey on sentiment analysis: Approaches, challenges and trends. *Knowledge-Based Systems*, 226:107134, 2021.
- [5] BPS. Statistik e-commerce 2019. *Statistics*, 2019.
- [6] BPS. Statistik e-commerce 2020. *Statistics*, 2020.
- [7] R. Cai, B. Qin, Y. Chen, L. Zhang, R. Yang, S. Chen, and W. Wang. Sentiment analysis about investors and consumers in energy market based on bert-bilstm. *IEEE access*, 8:171408–171415, 2020.
- [8] A. Chiorrini, C. Diamantini, A. Mircoli, D. Potena, et al. Emotion and sentiment analysis of tweets using bert. In *Edbt/icdt workshops*, volume 3, pages 1–7, 2021.
- [9] P. M. Coelho, B. Corona, R. ten Klooster, and E. Worrell. Sustainability of reusable packaging—current situation and trends. *Resources, Conservation & Recycling: X*, 6: 100037, 2020.
- [10] N. C. Dang, M. N. Moreno-García, and F. De la Prieta. Sentiment analysis based on deep learning: A comparative study. *Electronics*, 9(3):483, 2020.
- [11] I. Fadillah, M. A. Firmansyah, S. Hadi, and M. A. Danurwindo. Pengaruh brand awareness, kualitas produk, dan word of mouth (wom) terhadap minat beli skin care lokal di sociolla store surabaya. *PROCEEDING UMSURABAYA*, 2022.
- [12] X. Fang and J. Tao. A transfer learning based approach for aspect based sentiment analysis. In *2019 sixth international conference on Social Networks Analysis, Management and Security (SNAMS)*, pages 478–483. IEEE, 2019.

- [13] U. D. Gandhi, P. Malarvizhi Kumar, G. Chandra Babu, and G. Karthick. Sentiment analysis on twitter data by using convolutional neural network (cnn) and long short term memory (lstm). *Wireless Personal Communications*, pages 1–10, 2021.
- [14] N. K. Gondhi, Chaahat, E. Sharma, A. H. Alharbi, R. Verma, and M. A. Shah. Efficient long short-term memory-based sentiment analysis of e-commerce reviews. *Computational intelligence and neuroscience*, 2022(1):3464524, 2022.
- [15] M. Z. Islam, M. M. Islam, and A. Asraf. A combined deep cnn-lstm network for the detection of novel coronavirus (covid-19) using x-ray images. *Informatics in medicine unlocked*, 20:100412, 2020.
- [16] K. Jain and R. Jindal. Nlp-enabled recommendation of hashtags for covid based tweets using hybrid bert-lstm model. *ACM Transactions on Asian and Low-Resource Language Information Processing*, 2024.
- [17] P. K. Jain, R. Pamula, and G. Srivastava. A systematic literature review on machine learning applications for consumer sentiment analysis using online reviews. *Computer science review*, 41:100413, 2021.
- [18] R. Kaur, R. Kumar, and M. Gupta. Predicting risk of obesity and meal planning to reduce the obese in adulthood using artificial intelligence. *Endocrine*, 78(3):458–469, 2022.
- [19] D. A. K. Khotimah and R. Sarno. Sentiment analysis of hotel aspect using probabilistic latent semantic analysis, word embedding and lstm. *International Journal of Intelligent Engineering and Systems*, 12(4):275–290, 2019.
- [20] Y. D. Kirana and S. Al Faraby. Sentiment analysis of beauty product reviews using the k-nearest neighbor (knn) and tf-idf methods with chi-square feature selection. *Journal of Data Science and Its Applications*, 4(1):31–42, 2021.
- [21] F. Koto, A. Rahimi, J. H. Lau, and T. Baldwin. Indolem and indobert: A benchmark dataset and pre-trained language model for indonesian nlp. *arXiv preprint arXiv:2011.00677*, 2020.
- [22] M. S. Kraiem, F. Sánchez-Hernández, and M. N. Moreno-García. Selecting the suitable resampling strategy for imbalanced data classification regarding dataset properties. an approach based on association models. *Applied sciences*, 11(18):8546, 2021.
- [23] Q. Liao, M. Zhu, L. Wu, X. Pan, X. Tang, and Z. Wang. Deep learning for air quality forecasts: a review. *Current Pollution Reports*, 6(4):399–409, 2020.
- [24] G. Liu and J. Guo. Bidirectional lstm with attention mechanism and convolutional layer for text classification. *Neurocomputing*, 337:325–338, 2019.

- [25] S. L. Mahfiz and A. Romadhony. Aspect-based opinion mining on beauty product reviews. In *2020 3rd International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, pages 488–493. IEEE, 2020.
- [26] P. Mehta and S. Pandya. A review on sentiment analysis methodologies, practices and applications. *International Journal of Scientific and Technology Research*, 9(2): 601–609, 2020.
- [27] S. Mohammadi and M. Chapon. Investigating the performance of fine-tuned text classification models based-on bert. In *2020 IEEE 22nd International Conference on High Performance Computing and Communications; IEEE 18th International Conference on Smart City; IEEE 6th International Conference on Data Science and Systems (HPCC/SmartCity/DSS)*, pages 1252–1257. IEEE, 2020.
- [28] G. Murthy, S. R. Allu, B. Andhavarapu, M. Bagadi, and M. Belusonti. Text based sentiment analysis using lstm. *Int. J. Eng. Res. Tech. Res*, 9(05):299–303, 2020.
- [29] Q. H. Nguyen, H.-B. Ly, L. S. Ho, N. Al-Ansari, H. V. Le, V. Q. Tran, I. Prakash, and B. T. Pham. Influence of data splitting on performance of machine learning models in prediction of shear strength of soil. *Mathematical Problems in Engineering*, 2021(1): 4832864, 2021.
- [30] G. K. Nufus, M. Mustafid, and R. Gernowo. Sentiment analysis for video on demand application user satisfaction with long short term memory model. In *E3S Web of Conferences*, volume 317, page 05031. EDP Sciences, 2021.
- [31] A. Nurhopipah and C. Magnolia. Perbandingan metode resampling pada imbalanced dataset untuk klasifikasi komentar program mbkm. *Jurnal Publikasi Ilmu Komputer dan Multimedia*, 2(1):9–22, 2023.
- [32] M. R. Pratama, F. A. G. Soerawinata, R. R. Zhafari, H. N. Irmanda, et al. Sentiment analysis of beauty product e-commerce using support vector machine method. *Jurnal RESTI (Rekayasa Sistem Dan Teknologi Informasi)*, 6(2):269–274, 2022.
- [33] M. Rahman, D. Islam, R. J. Mukti, and I. Saha. A deep learning approach based on convolutional lstm for detecting diabetes. *Computational biology and chemistry*, 88: 107329, 2020.
- [34] N. Rai, D. Kumar, N. Kaushik, C. Raj, and A. Ali. Fake news classification using transformer based enhanced lstm and bert. *International Journal of Cognitive Computing in Engineering*, 3:98–105, 2022.
- [35] N. S. Ramadhanti, W. A. Kusuma, and A. Annisa. Optimasi data tidak seimbang pada interaksi drug target dengan sampling dan ensemble support vector machine. *Jurnal Teknologi Informasi dan Ilmu Komputer*, 7(6):1221–1230, 2020.

- [36] N. Razali, S. Ismail, and A. Mustapha. Machine learning approach for flood risks prediction. *IAES International Journal of Artificial Intelligence*, 9(1):73, 2020.
- [37] A. Rehman, T. Saba, M. Mujahid, F. S. Alamri, and N. ElHakim. Parkinson’s disease detection using hybrid lstm-gru deep learning model. *Electronics*, 12(13):2856, 2023.
- [38] X. Ren, S. Liu, X. Yu, and X. Dong. A method for state-of-charge estimation of lithium-ion batteries based on pso-lstm. *Energy*, 234:121236, 2021.
- [39] B. S. Rintyarna, H. Kuswanto, R. Sarno, E. K. Rachmaningsih, F. H. Rachman, W. Suharso, and T. A. Cahyanto. Modelling service quality of internet service providers during covid-19: The customer perspective based on twitter dataset. In *Informatics*, volume 9, page 11. MDPI, 2022.
- [40] A. Rolangon, A. Weku, and G. A. Sandag. Perbandingan algoritma lstm untuk analisis sentimen pengguna twitter terhadap layanan rumah sakit saat pandemi covid-19. *TeIKa*, 13(01):31–40, 2023.
- [41] V. Sima, I. G. Gheorghe, J. Subić, and D. Nancu. Influences of the industry 4.0 revolution on the human capital development and consumer behavior: A systematic review. *Sustainability*, 12(10):4035, 2020.
- [42] M. Singh, A. K. Jakhar, and S. Pandey. Sentiment analysis on the impact of coronavirus in social life using the bert model. *Social Network Analysis and Mining*, 11(1): 33, 2021.
- [43] Y. S. Siti Inayah Putri, Erwin Budi Setiawan. Aspect-based sentiment analysis on twitter using long short-term memory method. *J. Media Inform. Budidarma*, 2023.
- [44] R. V. O. I. Sudiro, S. S. Prasetyowati, and Y. Sibaroni. Aspect based sentiment analysis with combination feature extraction lda and word2vec. In *2021 9th International Conference on Information and Communication Technology (ICoICT)*, pages 611–615. IEEE, 2021.
- [45] K. L. Tan, C. P. Lee, and K. M. Lim. A survey of sentiment analysis: Approaches, datasets, and future research. *Applied Sciences*, 13(7):4550, 2023.
- [46] K. L. Tan, C. P. Lee, and K. M. Lim. Roberta-gru: A hybrid deep learning model for enhanced sentiment analysis. *Applied Sciences*, 13(6):3915, 2023.
- [47] J. Tanha, Y. Abdi, N. Samadi, N. Razzaghi, and M. Asadpour. Boosting methods for multi-class imbalanced data classification: an experimental review. *Journal of Big data*, 7:1–47, 2020.

- [48] Y. Tian, G. Chen, and Y. Song. Aspect-based sentiment analysis with type-aware graph convolutional networks and layer ensemble. In *Proceedings of the 2021 conference of the North American chapter of the association for computational linguistics: human language technologies*, pages 2910–2922, 2021.
- [49] V. P. K. Turlapati and M. R. Prusty. Outlier-smote: A refined oversampling technique for improved detection of covid-19. *Intelligence-based medicine*, 3:100023, 2020.
- [50] M. A. A. T. Utami, P. Silvianti, and M. Masjkur. Algoritme support vector machine untuk analisis sentimen berbasis aspek ulasan game online mobile legends: Bang-bang. *Xplore: Journal of Statistics*, 12(1):63–77, 2023.
- [51] X. Wu, Z. Liu, L. Yin, W. Zheng, L. Song, J. Tian, B. Yang, and S. Liu. A haze prediction model in chengdu based on lstm. *Atmosphere*, 12(11):1479, 2021.
- [52] R. K. Yadav, L. Jiao, M. Goodwin, and O.-C. Granmo. Positionless aspect based sentiment analysis using attention mechanism. *Knowledge-Based Systems*, 226:107136, 2021.
- [53] M. Yunus, J. Saputra, and Z. Muhammad. Digital marketing, online trust and online purchase intention of e-commerce customers: Mediating the role of customer relationship management. *International Journal of Data & Network Science*, 6(3), 2022.
- [54] C. H. Yutika, A. Adiwijaya, and S. Al Faraby. Analisis sentimen berbasis aspek pada review female daily menggunakan tf-idf dan naïve bayes. *J. Media Inform. Budidarma*, 5(2):422, 2021.
- [55] S. N. Zisad, E. Chowdhury, M. S. Hossain, R. U. Islam, and K. Andersson. An integrated deep learning and belief rule-based expert system for visual sentiment analysis under uncertainty. *Algorithms*, 14(7):213, 2021.