

## REFERENCES

- [1] W. A. Prabowo and C. Wiguna, "Sistem Informasi UMKM Bengkel Berbasis Web Menggunakan Metode SCRUM," *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 5, no. 1, p. 149, Jan. 2021, doi: 10.30865/mib.v5i1.2604.
- [2] J. Khatib Sulaiman, D. Setiyawati, N. Cahyono, and U. Amikom Yogyakarta, "Analisa Sentimen Pengguna Sosial Media Twitter Terhadap Perokok di Indonesia," *Indonesian Journal of Computer Science Attribution*, vol. 12, no. 1, pp. 2023–262.
- [3] Institute of Electrical and Electronics Engineers, Adhiparasakthi Engineering College. Department of Electronics and Communication Engineering, and Institute of Electrical and Electronics Engineers. Madras Section, *Proceedings of the 2017 IEEE International Conference on Communication and Signal Processing (ICCSPP) : 6th-8th April, 2017, Melmaruvathur, India*.
- [4] Universitas Diponegoro. Faculty of Science and Mathematics. Department of Informatics, Institute of Electrical and Electronics Engineers. Indonesia Section, Universitas Diponegoro. IEEE Student Branch, and Institute of Electrical and Electronics Engineers, *ICICoS 2019 : the 3rd International Conference on Informatics and Computational Sciences : proceedings : October 29th -30th, 2019, Semarang, Central Java, Indonesia*.
- [5] S. Kamiş and D. Goularas, "Evaluation of Deep Learning Techniques in Sentiment Analysis from Twitter Data," in *Proceedings - 2019 International Conference on Deep Learning and Machine Learning in Emerging Applications, Deep-ML 2019*, Institute of Electrical and Electronics Engineers Inc., Aug. 2019, pp. 12–17. doi: 10.1109/Deep-ML.2019.00011.
- [6] A. Severyn and A. Moschitti, "Twitter Sentiment Analysis with Deep Convolutional Neural Networks," Aug. 2015, pp. 959–962. doi: 10.1145/2766462.2767830.
- [7] Y. Zhang and B. C. Wallace, "A Sensitivity Analysis of (and Practitioners' Guide to) Convolutional Neural Networks for Sentence Classification."
- [8] R. Aryanti, A. Saryoko, A. Junaidi, S. Marlina, Wahyudin, and L. Nurmalia, "Comparing Classification Algorithm with Genetic Algorithm in Public Transport Analysis," in *Journal of Physics: Conference Series*, IOP Publishing Ltd, Nov. 2020. doi: 10.1088/1742-6596/1641/1/012017.
- [9] S. Loussaief and A. Abdelkrim, "Convolutional Neural Network Hyper-Parameters Optimization based on Genetic Algorithms," 2018. [Online]. Available: [www.ijacsa.thesai.org](http://www.ijacsa.thesai.org)
- [10] M. F. Avidiansyah and E. B. Setiawan, "The Influence of Sentiment on the Movement of Bank BCA (BBCA) Shares with the CNN-GRU Classification Model and Feature Expansion with GloVe," in *2023 International Conference on Data Science and Its Applications (ICoDSA)*, 2023, pp. 105–110. doi: 10.1109/ICoDSA58501.2023.10277052.
- [11] K. U. Wijaya and E. B. Setiawan, "Hate Speech Detection Using Convolutional Neural Network and Gated Recurrent Unit with FastText Feature Expansion on Twitter," *Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI)*, vol. 9, no. 3, pp. 619–631, 2023, doi: 10.26555/jiteki.v9i3.26532.
- [12] R. Alshalan and H. Al-Khalifa, "A deep learning approach for automatic hate speech detection in the saudi twittersphere," *Applied Sciences (Switzerland)*, vol. 10, no. 23, pp. 1–16, Dec. 2020, doi: 10.3390/app10238614.
- [13] P. Tugas Akhir, "Deteksi Ujaran Kebencian Menggunakan CNN+GRU dengan Ekspansi Fitur FastText di Twitter."
- [14] "Penggunaan Metode GloVe untuk Ekspansi Fitur pada Analisis Sentimen Twitter dengan Naïve Bayes dan Support Vector Machine."
- [15] S. Akuma, T. Lubem, and I. T. Adom, "Comparing Bag of Words and TF-IDF with different models for hate speech detection from live tweets," *International Journal of Information Technology (Singapore)*, vol. 14, no. 7, pp. 3629–3635, Dec. 2022, doi: 10.1007/s41870-022-01096-4.
- [16] S. W. Kim and J. M. Gil, "Research paper classification systems based on TF-IDF and LDA schemes," *Human-centric Computing and Information Sciences*, vol. 9, no. 1, Dec. 2019, doi: 10.1186/s13673-019-0192-7.
- [17] M. Nurjannah, I. Fitri Astuti, and D. Program Studi, "PENERAPAN ALGORITMA TERM FREQUENCY-INVERSE DOCUMENT FREQUENCY (TF-IDF) UNTUK TEXT MINING Mahasiswa S1 Program Studi Ilmu Komputer FMIPA Universitas Mulawarman 2,3)," 2013.
- [18] A. Nurdin, B. Anggo, S. Aji, A. Bustamin, and Z. Abidin, "PERBANDINGAN KINERJA WORD EMBEDDING WORD2VEC, GLOVE, DAN FASTTEXT PADA KLASIFIKASI TEKS," *Jurnal TEKNOKOMPAK*, vol. 14, no. 2, p. 74, 2020.

- [19] I. Abasan and E. Setiawan, "Empowering hate speech detection: leveraging linguistic richness and deep learning," *Bulletin of Electrical Engineering and Informatics*, vol. 13, pp. 1371–1382, Jun. 2024, doi: 10.11591/eei.v13i2.6938.
- [20] H. Khotimah, F. #1, E. Budi, S. #2, and I. Kurniawan, "Implementation Information Gain Feature Selection for Hoax News Detection on Twitter using Convolutional Neural Network (CNN)", doi: 10.34818/indojc.2021.5.3.506.
- [21] M. Zulqarnain, R. Ghazali, Y. M. M. Hassim, and M. Rehan, "A comparative review on deep learning models for text classification," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 19, no. 1, pp. 325–335, 2020, doi: 10.11591/ijeecs.v19.i1.pp325-335.
- [22] W. Meng, Y. Wei, P. Liu, Z. Zhu, and H. Yin, "Aspect Based Sentiment Analysis with Feature Enhanced Attention CNN-BiLSTM," *IEEE Access*, vol. 7, pp. 167240–167249, 2019, doi: 10.1109/ACCESS.2019.2952888.
- [23] "JEPIN (Jurnal Edukasi dan Penelitian Informatika) Penerapan Convolutional Neural Network (CNN) pada Pengenalan Aksara Lampung Berbasis Optical Character Recognition (OCR) Agus Mulyanto #1 , Erlina Susanti #2 , Farli Rosi #3 , Wajiran #4 , Rohmat Indra Borman #5", [Online]. Available: <https://colab.research.google.com>.
- [24] K. U. Wijaya and E. B. Setiawan, "Hate Speech Detection Using Convolutional Neural Network and Gated Recurrent Unit with FastText Feature Expansion on Twitter," *Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI)*, vol. 9, no. 3, pp. 619–631, 2023, doi: 10.26555/jiteki.v9i3.26532.
- [25] M. U. Salur and I. Aydin, "A Novel Hybrid Deep Learning Model for Sentiment Classification," *IEEE Access*, vol. 8, pp. 58080–58093, 2020, doi: 10.1109/ACCESS.2020.2982538.