

DAFTAR PUSTAKA

- [1] A. Tontodimamma, E. Nissi, A. Sarra, and L. Fontanella, “Thirty years of research into hate speech: topics of interest and their evolution,” *Scientometrics*, vol. 126, pp. 157–179, 1 2021.
- [2] S. Vilar-Lluch, “Understanding and appraising ‘hate speech’,” *Journal of Language Aggression and Conflict*, vol. 11, pp. 279–306, 9 2023.
- [3] H. Watanabe, M. Bouazizi, and T. Ohtsuki, “Hate speech on twitter: A pragmatic approach to collect hateful and offensive expressions and perform hate speech detection,” *IEEE Access*, vol. 6, pp. 13 825–13 835, 2018.
- [4] K. Gelber, “Differentiating hate speech: a systemic discrimination approach,” *Critical Review of International Social and Political Philosophy*, vol. 24, pp. 393–414, 6 2021.
- [5] A. Fino, “Defining hate speech,” *Journal of International Criminal Justice*, vol. 18, pp. 31–57, 3 2020.
- [6] Z. Liu, “Online hate speech on twitter from the perspective of pragmatics,” *International Journal of Social Sciences and Public Administration*, vol. 4, pp. 322–326, 8 2024.
- [7] “Use of twitter across educational settings: a review of the literature,” *International Journal of Educational Technology in Higher Education*, vol. 16, p. 36, 12 2019.
- [8] N. Paradis, M. A. Knoll, C. Shah, C. Lambert, G. Delouya, H. Bahig, and D. Taussky, “Twitter,” *American Journal of Clinical Oncology*, vol. 43, pp. 442–445, 6 2020.
- [9] S. Riyadi, A. D. Andriyani, A. M. Masyhur, C. Damarjati, and M. I. Solihin, “Detection of indonesian hate speech on twitter using hybrid cnn-rnn,” in *2023 International Conference on Information Technology and Computing (ICITCOM)*. IEEE, 12 2023, pp. 352–356.
- [10] N. M. Andini, Y. Findawati, I. R. I. Astutik, and A. Eviyanti, “Implementasi convolutional neural network (cnn) untuk mendeteksi ujaran kebencian dan emosi di twitter,” *SMATIKA JURNAL*, vol. 14, pp. 314–325, 12 2024. [Online]. Available: <https://jurnal.stiki.ac.id/SMATIKA/article/view/1346>
- [11] S. Parker and D. Ruths, “Is hate speech detection the solution the world wants?” *Proceedings of the National Academy of Sciences*, vol. 120, 3 2023.
- [12] “Kebebasan berbicara di media sosial: Antara regulasi dan ekspresi,” *Student Research Journal*, vol. 3, pp. 87–96, 1 2025.

- [13] “Hate speech detection in indonesian twitter using contextual embedding approach,” *IJCCS (Indonesian Journal of Computing and Cybernetics Systems)*, vol. 15, p. 177, 4 2021.
- [14] N. S. Mullah and W. M. N. W. Zainon, “Advances in machine learning algorithms for hate speech detection in social media: A review,” pp. 88 364–88 376, 2021.
- [15] P. Kagne, “Political hate speech detection using machine learning,” *INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING AND MANAGEMENT*, vol. 07, pp. 1–11, 10 2023.
- [16] P. P. Jemima, B. R. Majumder, B. K. Ghosh, and F. Hoda, “Hate speech detection using machine learning,” in *2022 7th International Conference on Communication and Electronics Systems (ICCES)*. IEEE, 6 2022, pp. 1274–1277.
- [17] A. Rawat, S. Kumar, and S. S. Samant, “Hate speech detection using machine learning techniques,” in *2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT)*. IEEE, 6 2024, pp. 1–6.
- [18] “Intelligent detection of hate speech in arabic social network: A machine learning approach,” *Journal of Information Science*, vol. 47, pp. 483–501, 8 2021.
- [19] Y. Zhou, Y. Yang, H. Liu, X. Liu, and N. Savage, “Deep learning based fusion approach for hate speech detection,” *IEEE Access*, vol. 8, pp. 128 923–128 929, 2020.
- [20] C. D. Putra and H.-C. Wang, “Advanced bert-cnn for hate speech detection,” *Procedia Computer Science*, vol. 234, pp. 239–246, 2024.
- [21] A. Chaudhari, A. Parseja, and A. Patyal, “Cnn based hate-o-meter: A hate speech detecting tool,” in *2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)*. IEEE, 8 2020, pp. 940–944.
- [22] “Understanding of convolutional neural network (cnn): A review,” *International Journal of Robotics and Control Systems*, vol. 2, pp. 739–748, 1 2023.
- [23] Z. J. Wang, R. Turko, O. Shaikh, H. Park, N. Das, F. Hohman, M. Kahng, and D. H. P. Chau, “Cnn explainer: Learning convolutional neural networks with interactive visualization,” *IEEE Transactions on Visualization and Computer Graphics*, vol. 27, pp. 1396–1406, 2 2021.
- [24] R. Alshalan and H. Al-Khalifa, “A deep learning approach for automatic hate speech detection in the saudi twittersphere,” *Applied Sciences*, vol. 10, p. 8614, 12 2020.

- [25] R. Duwairi, A. Hayajneh, and M. Quwaider, “A deep learning framework for automatic detection of hate speech embedded in arabic tweets,” *Arabian Journal for Science and Engineering*, vol. 46, pp. 4001–4014, 4 2021.
- [26] J. Fan, C. Ma, and Y. Zhong, “A selective overview of deep learning,” *Statistical Science*, vol. 36, 5 2021.
- [27] M. O. Ibrohim, “GitHub - okkyibrohim/id-multi-label-hate-speech-and-abusive-language-detection: The Dataset for Multi Label Hate Speech and Abusive Language Detection in Indonesian Twitter — github.com,” <https://github.com/okkyibrohim/id-multi-label-hate-speech-and-abusive-language-detection>, [Accessed 20-05-2025].
- [28] W. W. Utami and D. Darmaiza, “Hate speech, agama, dan kontestasi politik di indonesia,” *Indonesian Journal of Religion and Society*, vol. 2, pp. 113–128, 12 2020.
- [29] D. C. C. H. Olajide Muili Folaranmi, “The role of adult and non-formal education in the eradication of hatespeech as a catalyst for national disintegration in nigeria,” *Journal of Education and Practice*, 3 2019.
- [30] K. Garcia and L. Berton, “Topic detection and sentiment analysis in twitter content related to covid-19 from brazil and the usa,” *Applied Soft Computing*, vol. 101, p. 107057, 3 2021.
- [31] R. Ramadani and M. Hilmiyah, “Pembentukan citra politik di media sosial twitter,” *KOMUNIDA : Media Komunikasi dan Dakwah*, vol. 9, pp. 254–268, 12 2019.
- [32] B. He, C. Ziems, S. Soni, N. Ramakrishnan, D. Yang, and S. Kumar, “Racism is a virus,” in *Proceedings of the 2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*. ACM, 11 2021, pp. 90–94.
- [33] “Overview of the hasoc subtrack at fire 2021: Hate speech and offensive content identification in english and indo-aryan languages under creative commons license attribution 4.0 international (cc by 4.0),” 2021. [Online]. Available: <http://ceur-ws.org>
- [34] A. Shrestha and A. Mahmood, “Review of deep learning algorithms and architectures,” *IEEE Access*, vol. 7, pp. 53 040–53 065, 2019.
- [35] R. Refianti, A. Benny, and R. Poetri, “Classification of melanoma skin cancer using convolutional neural network,” *International Journal of Advanced Computer Science and Applications*, vol. 10, 2019.

- [36] S. Sivakumar, L. S. Videla, T. R. Kumar, J. Nagaraj, S. Itnal, and D. Haritha, “Review on word2vec word embedding neural net,” pp. 282–290, 9 2020.
- [37] D. Jatnika, M. A. Bijaksana, and A. A. Suryani, “Word2vec model analysis for semantic similarities in english words,” *Procedia Computer Science*, vol. 157, pp. 160–167, 2019.
- [38] O. Rainio, J. Teuho, and R. Klén, “Author correction: Evaluation metrics and statistical tests for machine learning,” *Scientific Reports*, vol. 14, p. 15724, 7 2024.
- [39] M. O. Ibrohim and I. Budi, “Multi-label hate speech and abusive language detection in Indonesian twitter,” in *Proceedings of the Third Workshop on Abusive Language Online*. Florence, Italy: Association for Computational Linguistics, Aug. 2019, pp. 46–57. [Online]. Available: <https://www.aclweb.org/anthology/W19-3506>
- [40] A. Zikri and S. Agustian, “Penerapan support vector machine dan fasttext untuk mendeteksi hate speech dan abusive pada twitter,” *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 7, p. 436, 1 2023.
- [41] A. Fransiska, S. Agustian, F. Insani, M. Fikry, and P. Pizaini, “Algoritme logistic regression untuk mendeteksi ujaran kebencian dan bahasa kasar multilabel pada twitter berbahasa indonesia,” *Jurnal Nasional Komputasi dan Teknologi Informasi (JNKTI)*, vol. 5, pp. 629–633, 8 2022.
- [42] A. P. J. Dwitama, “Deteksi ujaran kebencian pada twitter bahasa indonesia menggunakan machine learning: Reviu literatur,” *Jurnal Sains, Nalar, dan Aplikasi Teknologi Informasi*, vol. 1, 8 2021.
- [43] S. Shekhar, A. Bansode, and A. Salim, “A comparative study of hyper-parameter optimization tools,” 1 2022. [Online]. Available: <http://arxiv.org/abs/2201.06433>
- [44] T. Akiba, S. Sano, T. Yanase, T. Ohta, and M. Koyama, “Optuna,” in *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining*. ACM, 7 2019, pp. 2623–2631.