

Referensi

- [1] S. Amaliyah Muzakkir, “Analisis Sentimen Masyarakat Indonesia Terhadap Kebijakan Merdeka Belajar Pada Media Sosial Twitter,” Gowa, Jun 2023.
- [2] F. Koto, J. H. Lau, dan T. Baldwin, “IndoBERTweet: A Pretrained Language Model for Indonesian Twitter with Effective Domain-Specific Vocabulary Initialization,” Sep 2021, [Daring]. Tersedia pada: <http://arxiv.org/abs/2109.04607>
- [3] B. Wilie *dkk.*, “IndoNLU: Benchmark and Resources for Evaluating Indonesian Natural Language Understanding,” Sep 2020, [Daring]. Tersedia pada: <http://arxiv.org/abs/2009.05387>
- [4] J. Devlin, M.-W. Chang, K. Lee, K. T. Google, dan A. I. Language, “BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding,” Minnesota, Jun 2019. [Daring]. Tersedia pada: <https://github.com/tensorflow/tensor2tensor>
- [5] J. C. Setiawan, K. M. Lhaksana, dan B. Bunyamin, “Sentiment Analysis of Indonesian TikTok Review Using LSTM and IndoBERTweet Algorithm,” *JIPi (Jurnal Ilmiah Penelitian dan Pembelajaran Informatika)*, vol. 8, no. 3, hlm. 774–780, Agu 2023, doi: 10.29100/jipi.v8i3.3911.
- [6] L. Geni, E. Yulianti, dan D. I. Sensuse, “Sentiment Analysis of Tweets Before the 2024 Elections in Indonesia Using Bert Language Models,” *Jurnal Ilmiah Teknik Elektro Komputer dan Informatika*, vol. 9, no. 3, hlm. 746–757, Agu 2023, doi: 10.26555/jiteki.v9i3.26490.
- [7] F. Koto, J. H. Lau, dan T. Baldwin, “INDOBERTWEET: A Pretrained Language Model for Indonesian Twitter with Effective Domain-Specific Vocabulary Initialization,” dalam *EMNLP 2021 - 2021 Conference on Empirical Methods in Natural Language Processing, Proceedings*, Association for Computational Linguistics (ACL), 2021, hlm. 10660–10668. doi: 10.18653/v1/2021.emnlp-main.833.
- [8] J. Forry Kusuma dan A. Chowanda, “Indonesian Hate Speech Detection Using IndoBERTweet and BiLSTM on Twitter,” Jakarta, Sep 2023. [Daring]. Tersedia pada: www.joiv.org/index.php/joiv

- [9] M. Fadhel, "Depression Detection of Users in Social Media X using IndoBERTweet," *Jurnal dan Penelitian Teknik Informatika*, vol. 8, no. 2, 2024, doi: 10.33395/v8i2.13354.
- [10] M. Z. Subarkah, M. Hildha, N. T. Amanda, dan E. Zukhronah, "Analisis Sentimen Review Tempat Wisata Pada Data Online Travel Agency Di Yogyakarta Menggunakan Model Neural Network IndoBERTweet Fine Tuning," hlm. 1–11, 2022.
- [11] G. S. Qalbina dan R. Asmara, "Pemanfaatan Fitur Trending Topic Twitter 'X' sebagai Upaya Pemenuhan Kebutuhan Informasi Mahasiswa Program Studi Perpustakaan dan Ilmu Informasi Universitas Negeri Padang," *AL-DYAS*, vol. 3, no. 2, hlm. 816–824, Jun 2024, doi: 10.58578/aldyas.v3i2.3140.
- [12] Arif Brian utama, "Pengaruh Media Sosial dalam Pembentukan Opini Publik di Era Digital," Kompasiana <https://www.kompasiana.com/arifbrianutama2763/66a9952634777c4b813e5743/pengaruh-media-sosial-dalam-pembentukan-opini-publik-di-era-digital>.
- [13] Andi Dwi Riyanto, "Hootsuite (We Are Social): Data digital Indonesia 2025.," <https://andi.link/hootsuite-we-are-social-data-digital-indonesia-2025/>. Diakses: 28 Mei 2025. [Daring]. Tersedia pada: <https://andi.link/hootsuite-we-are-social-data-digital-indonesia-2025/>
- [14] Azis Tri Budianto, "Peran Media Sosial dalam Membentuk Opini Publik," Kompasiana <https://www.kompasiana.com/azis70893/65429a89ee794a7cb56ccf12/peran-media-sosial-dalam-membentuk-opini-publik>.
- [15] Iqbal H. Sarker, Tawfeeq Alsanoosy, Mohammed Moshiul Hoque, dan Md. Kafil Uddin, *Mobile Data Science and Intelligent Apps: Concepts, AI-Based Modeling and Research Directions*, vol. 25. 2020. doi: <https://doi.org/10.1007/s11036-020-01650-z>.
- [16] A. B. A. D. W. A. P. , F. A. R. M. S. O. , N. Y. U. H. Detty Purnamasari, *PENGANTAR METODE ANALISIS SENTIMEN*, 1 ed. Penerbit Gunadarma.

- [17] A. Miyajiwala, A. Ladkat, S. Jagadale, dan R. Joshi, “On Sensitivity of Deep Learning Based Text Classification Algorithms to Practical Input Perturbations,” Jan 2022, doi: 10.1007/978-3-031-10464-0_42.
- [18] M. A. Rosid, A. S. Fitriani, I. R. I. Astutik, N. I. Mulloh, dan H. A. Gozali, “Improving Text Preprocessing for Student Complaint Document Classification Using Sastrawi,” dalam *IOP Conference Series: Materials Science and Engineering*, Institute of Physics Publishing, Jul 2020. doi: 10.1088/1757-899X/874/1/012017.
- [19] A. Wegmann, D. Nguyen, dan D. Jurgens, “Tokenization is Sensitive to Language Variation,” Jul 2025, [Daring]. Tersedia pada: <http://arxiv.org/abs/2502.15343>
- [20] P. Pattnayak, H. L. Patel, dan A. Agarwal, “Tokenization Matters: Improving Zero-Shot NER for Indic Languages,” Apr 2025, [Daring]. Tersedia pada: <http://arxiv.org/abs/2504.16977>
- [21] J. Jia *dkk.*, “From Principles to Applications: A Comprehensive Survey of Discrete Tokenizers in Generation, Comprehension, Recommendation, and Information Retrieval,” Feb 2025, [Daring]. Tersedia pada: <http://arxiv.org/abs/2502.12448>
- [22] G. I. E. Soen, M. Marlina, dan R. Renny, “Implementasi Cloud Computing dengan Google Colaboratory pada Aplikasi Pengolah Data Zoom Participants,” *JITU : Journal Informatic Technology And Communication*, vol. 6, no. 1, hlm. 24–30, Jun 2022, doi: 10.36596/jitu.v6i1.781.
- [23] Mike Levy, “Google Colab for Deep Learning: A Step-by-Step Guide,” <https://www.dataquest.io/blog/getting-started-with-google-colab-for-deep-learning/>.
- [24] Ekaba Bisong, *Google Colaboratory. In Building machine learning and deep learning models on Google Cloud Platform* . OTTAWA, ON, Canada: Apress, Berkeley, CA, 2019. Diakses: 28 Mei 2025. [Daring]. Tersedia pada: https://doi.org/10.1007/978-1-4842-4470-8_7
- [25] V. Cutting dan N. Stephen, “A Review on using Python as a Preferred Programming Language for Beginners,” *International Research Journal of*

- Engineering and Technology*, 2021, [Daring]. Tersedia pada: <https://www.researchgate.net/publication/359379004>
- [26] PYPL, “PYPL Popularity of Programming Language index.,” <https://pypl.github.io/PYPL.html>. Diakses: 28 Mei 2025. [Daring]. Tersedia pada: <https://pypl.github.io/PYPL.html>
- [27] Ben Lutkevich, “Definition Hugging Face,” TechTarget <https://www.techtarget.com/whatis/definition/Hugging-Face>.
- [28] K. Kowsari, K. J. Meimandi, M. Heidarysafa, S. Mendu, L. Barnes, dan D. Brown, “Text classification algorithms: A survey,” 2019, *MDPI AG*. doi: 10.3390/info10040150.
- [29] U. Khairani, V. Mutiawani, dan H. Ahmadian, “Pengaruh Tahapan Preprocessing Terhadap Model Indobert Dan Indobertweet Untuk Mendeteksi Emosi Pada Komentar Akun Berita Instagram,” *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 11, no. 4, hlm. 887–894, Agu 2024, doi: 10.25126/jtiik.1148315.
- [30] Y. O. Sihombing, N. V. Situmorang, B. K. Negara, dan J. M. Sutoyo, “Jakarta Timur, 13640 b Badan Kepegawaian Negara,” 1364.
- [31] J. Morris, “Does Model Size Matter? A Comparison of BERT and DistilBERT,” https://github.com/UKPLab/sentence-transformers/issues/791?utm_source=chatgpt.com.
- [32] “Streaming data,” Wikipedia.
- [33] M. A. Palomino dan F. Aider, “Evaluating the Effectiveness of Text Pre-Processing in Sentiment Analysis,” *Applied Sciences (Switzerland)*, vol. 12, no. 17, Sep 2022, doi: 10.3390/app12178765.
- [34] A. Krouska, C. Troussas, dan M. Virvou, “The effect of preprocessing techniques on Twitter sentiment analysis,” dalam *IISA 2016 - 7th International Conference on Information, Intelligence, Systems and Applications*, Institute of Electrical and Electronics Engineers Inc., Des 2016. doi: 10.1109/IISA.2016.7785373.