

Detection of Indonesian Hate Speech in the Comments Column of Indonesian Artists' Instagram Using the RoBERTa Method

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REFERENCES

- [1] D. Kusumasari and S. Arifianto, "Makna Teks Ujaran Kebencian Pada Media Sosial," *Jurnal Komunikasi*, vol. 12, no. 1, p. 1, Jan. 2020, doi: 10.24912/jk.v12i1.4045.
- [2] "Digital around the world in April 2020 - We Are Social UK." <https://wearesocial.com/uk/blog/2020/04/digital-around-the-world-in-april-2020/> (accessed Jan. 29, 2023).
- [3] "BUDAYA BERKOMENTAR WARGANET DI MEDIA SOSIAL: UJARAN KEBENCIAN SEBAGAI SEBUAH TREN – Environmental Geography Student Association." <https://egsa.geo.ugm.ac.id/2022/02/06/budaya-berkomentar-warganet-di-media-sosial-ujaran-kebencian-sebagai-sebuah-tren/> (accessed Jan. 29, 2023).
- [4] C. Bagdon, "Profiling Spreaders of Hate Speech with N-grams and RoBERTa Notebook for PAN at CLEF 2021," 2021. [Online]. Available: <http://ceur-ws.org>
- [5] B. P. I. B. & S. C. Putra, "Deteksi Ujaran Kebencian dengan Menggunakan Algoritma Convolutional Neural Network pada Gambar," 2018.
- [6] Oryza Habibie Rahman, Gunawan Abdillah, and Agus Komarudin, "Klasifikasi Ujaran Kebencian pada Media Sosial Twitter Menggunakan Support Vector Machine," *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, vol. 5, no. 1, pp. 17–23, Feb. 2021, doi: 10.29207/resti.v5i1.2700.
- [7] Y. Suryani, R. Istianingrum, and S. U. Hanik, "Linguistik Forensik Ujaran Kebencian terhadap Artis Aurel Hermansyah di Media Sosial Instagram," *BELAJAR BAHASA: Jurnal Ilmiah Program Studi Pendidikan Bahasa dan Sastra Indonesia*, vol. 6, no. 1, pp. 107–118, Mar. 2021, doi: 10.32528/bb.v6i1.4167.
- [8] M. Kurnia Maulidina and E. Itje Sela, "ANALISIS SENTIMEN KOMENTAR WARGANET TERHADAP POSTINGAN INSTAGRAM MENGGUNAKAN METODE NAÏVE BAYES CLASSIFIER DAN TF-IDF (Studi Kasus: Instagram Gubernur Jawa Barat Ridwan Kamil)." 2021.
- [9] S. P. P. B. Batara, "Deteksi Ujaran Kebencian Dalam Bahasa Indonesia Pada Kolom Komentar Instagram Dengan Metode Klasifikasi Deep Neural Network," 2019.
- [10] A. Briliani, "Deteksi Ujaran Kebencian Dalam Bahasa Indonesia Pada Kolom Komentar Instagram Dengan Metode Klasifikasi K-Nearest Neighbor," 2019.

- [11] E. Erizal, “Deteksi Ujaran Kebencian Dalam Bahasa Indonesia Pada Kolom Komentar Instagram Dengan Metode Klasifikasi Maximum Entropy,” 2019.
- [12] Y. Liu *et al.*, “RoBERTa: A Robustly Optimized BERT Pretraining Approach,” Jul. 2019, [Online]. Available: <http://arxiv.org/abs/1907.11692>
- [13] “Glossary.” <https://huggingface.co/docs/transformers/glossary> (accessed Jan. 29, 2023).
- [14] “Dasar Text Preprocessing dengan Python | by Kuncahyo Setyo Nugroho | Medium.” <https://ksnugroho.medium.com/dasar-text-preprocessing-dengan-python-a4fa52608ffe> (accessed Jan. 29, 2023).
- [15] S. Zimmerman, C. Fox, and U. Kruschwitz, “Improving Hate Speech Detection with Deep Learning Ensembles.” [Online]. Available: <https://www.economist.com/news/europe/21734410->
- [16] “Mengenal Accuracy, Precision, Recall dan Specificity serta yang diprioritaskan dalam Machine Learning | by Resika Arthana | Medium.” <https://rey1024.medium.com/mengenal-accuracy-precision-recall-dan-specificity-serta-yang-diprioritaskan-b79ff4d77de8> (accessed Jan. 29, 2023).
- [17] “Understanding Confusion Matrix | by Sarang Narkhede | Towards Data Science.” <https://towardsdatascience.com/understanding-confusion-matrix-a9ad42dcfd62> (accessed Jan. 29, 2023).