

DAFTAR PUSTAKA

- [1] Y. N. Novianingsih, “Kronologi kasus bullying sma binus yang melibatkan anak vincent rompies, sahabat korban: Dijebak,” *Tribunnews.com*, Feb. 2024, Accessed: 2024-10-18. [Online]. Available: <https://www.tribunnews.com/seleb/2024/02/22/kronologi-kasus-bullying-sma-binus-yang-libatkan-anak-vincent-rompies-sahabat-korban-dijebak?page=3>.
- [2] A. Akbar, “Ibu korban perundungan cerita alasan anak gabung ’geng’ di sma internasional,” *detikNews*, Mar. 2024, Accessed: 2024-10-18. [Online]. Available: <https://news.detik.com/berita/d-7221134/ibu-korban-perundungan-cerita-alasan-anak-gabung-geng-di-sma-internasional>.
- [3] F. Nadhiroh, “Fakta siswi sd diviralkan korban perundungan ternyata berkebutuhan khusus,” *detikJatim*, Oct. 2024, Accessed: 2024-10-18. [Online]. Available: <https://www.detik.com/jatim/berita/d-7592000/siswi-sd-diviralkan-korban-perundungan-ternyata-berkebutuhan-khusus>.
- [4] Bisik.id, “Siswi sd probolinggo viral dengan luka lebam, ternyata anak berkebutuhan khusus,” *Bisik.id*, Oct. 2024, Accessed: 2024-10-18. [Online]. Available: <https://www.bisik.id/read/siswi-sd-probolinggo-viral-dengan-luka-lebam-ternyata-anak-berkebutuhan-khusus-1729141359155>.
- [5] C. U. Masduqi, “Foto wajah lebam siswi sd viral, polisi tegaskan bukan bullying,” *RRI.co.id*, Oct. 2024, Accessed: 2024-10-18. [Online]. Available: <https://www.rri.co.id/cek-fakta/1050954/foto-wajah-lebam-siswi-sd-viral-polisi-tegaskan-bukan-bullying>.
- [6] D. A. Lestari, “Berpikir kritis dalam menghadapi hoaks di media sosial,” *Universitas Airlangga*, T. B. F. V. U. Airlangga, Ed., Jul. 2023, Accessed: 2024-10-18. [Online]. Available: https://unair.ac.id/post_fetcher/fakultas-vokasi-berpikir-kritis-dalam-menghadapi-hoaks-di-media-sosial-3/.
- [7] Y. A. Cahyadi, “Kampanye pemilu 2024, ujaran kebencian terhadap kelompok minoritas meningkat,” *AJI Indonesia*, Feb. 2024, Accessed: 2024-10-18. [Online]. Available: <https://aji.or.id/informasi/kampanye-pemilu-2024-ujaran-kebencian-terhadap-kelompok-minoritas-meningkat>.
- [8] R. Naibaho, “Berkas perkara kasus ujaran kebencian soal papua tiktoker ab lengkap,” *detikNews*, Feb. 2024, Accessed: 2024-10-18. [Online]. Available: <https://news.detik.com/berita/d-7206759/berkas-perkara-kasus-ujaran-kebencian-soal-papua-tiktoker-ab-lengkap>.

- [9] N. Muhamad, "Twitter, medsos dengan ujaran kebencian terbanyak pada kampanye pemilu 2024," *Databoks Premium Lite*, Feb. 2024, Accessed: 2024-10-18. [Online]. Available: <https://databoks.katadata.co.id/teknologi-telekomunikasi/statistik/16c6c45ef50c346/twitter-medsos-dengan-ujaran-kebencian-terbanyak-pada-kampanye-pemilu-2024>.
- [10] G. A. F. Desira, "Stop bullying day, momen penting melawan perundungan di sekolah," *detikJabar*, Oct. 2024, Accessed: 2024-10-18. [Online]. Available: <https://www.detik.com/jabar/berita/d-7581328/stop-bullying-day-momen-penting-melawan-perundungan-di-sekolah>.
- [11] L. Rizkinaswara. "Strategi kominfo cegah cyberbullying saat pembelajaran daring." Diakses pada 9 November 2024. (2020), [Online]. Available: <https://aptika.kominfo.go.id/2020/09/strategi-kominfo-cegah-cyberbullying-saat-pembelajaran-daring/>.
- [12] K. J. Igoe. "It's not just personal: The economic value of preventing bullying in the workplace." Accessed: 2024-10-18. (2024), [Online]. Available: <https://www.hsph.harvard.edu/ecpe/economic-value-preventing-workplace-bullying/>.
- [13] M. Irfan. "Polarisasi politik dan dampaknya terhadap masyarakat." Diakses pada 9 November 2024. (2020), [Online]. Available: <https://jdih.sukoharjokab.go.id/berita/detail/polarisasi-politik-dan-dampaknya-terhadap-masyarakat>.
- [14] "Protecting yourself online: Cyberbullying, stalking, and harassment." Accessed: 2024-10-18. (2024), [Online]. Available: <https://facenet.org/resources/cyberbullying-stalking-and-harassment/>.
- [15] Rumah Tahanan Negara Kelas IIB Pelaihari. "Mengenal undang-undang ite." Accessed: 2024-10-18. (May 14, 2023), [Online]. Available: <https://sippn.menpan.go.id/berita/58352/rumah-tahanan-negara-kelas-iib-pelaihari/mengenal-undang-undang-ite>.
- [16] B. Indonesia. "Demo 22 mei: Korban meninggal, dalang kerusuhan dan 'ada settingan menciptakan martir'." Diperbarui pada 22 Mei 2019, Diakses pada 9 November 2024. (2019), [Online]. Available: <https://www.bbc.com/indonesia/indonesia-48345791>.
- [17] D. Relajo-Howell. "The impact of cyberbullying on mental health." Last updated: 2022-07-04; Accessed: 2024-10-18. (Jun. 2022), [Online]. Available: <https://www.psychreg.org/impact-cyberbullying-mental-health/>.

- [18] H. Putra, M. A. Bijaksana, and A. Romadhony, “Deteksi penggunaan kalimat abusive pada teks bahasa indonesia menggunakan metode indobert,” *Jurnal Tugas Akhir Fakultas Informatika*, vol. 8, no. 2, pp. 3028–3038, 2021.
- [19] A. I. Safitri and T. B. Sasongko, “Sentiment analysis of cyberbullying using bidirectional long short term memory algorithm on twitter,” *Jurnal Teknik Informatika (Jutif)*, vol. 5, no. 2, pp. 615–620, 2024.
- [20] I. S. Arfan, S. Fauziah, and I. Nawangsih, “Analisis sentimen terhadap cyber bullying di x menggunakan algoritma naive bayes: Sentiment analyst of cyber bullying in x using naive bayes algorithm,” *MALCOM: Indonesian Journal of Machine Learning and Computer Science*, vol. 4, no. 4, pp. 1411–1419, 2024.
- [21] A. Herliana and S. S. Muawiyah, “Komparasi optimasi analisis sentimen cyberbullying pada instagram berbasis particle swarm optimization,” *Jurnal Responsif: Riset Sains dan Informatika*, vol. 6, no. 1, pp. 43–53, 2024.
- [22] M. A. Syahira and R. Kurniawan, “Analisis sentimen cyberbullying pada media sosial x menggunakan metode support vector machine,” *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 8, no. 3, pp. 1724–1733, 2024.
- [23] D. F. Sjoraida, B. W. K. Guna, and D. Yudhokusuma, “Analisis sentimen film dirty vote menggunakan bert (bidirectional encoder representations from transformers),” *Jurnal JTİK (Jurnal Teknologi Informasi dan Komunikasi)*, vol. 8, no. 2, pp. 393–404, 2024.
- [24] A. C. Saputra, A. S. Saragih, and D. Ronaldo, “Perbandingan nilai akurasi distilbert dan bert pada dataset analisis sentimen lembaga kursus,” *Jurnal Teknologi Informasi: Jurnal Keilmuan dan Aplikasi Bidang Teknik Informatika*, vol. 18, no. 2, pp. 160–171, 2024.
- [25] F. A. Artanto, “Support vector machine berbasis particle swarm optimization pada analisis sentimen anggota kpps,” *JURNAL FASILKOM*, vol. 14, no. 1, pp. 75–79, 2024.
- [26] D. Ananda and R. R. Suryono, “Analisis sentimen publik terhadap pengungsi rohingya di indonesia dengan metode support vector machine dan naive bayes,” *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 8, no. 2, pp. 748–757, 2024.
- [27] B. Ramadhani and R. R. Suryono, “Komparasi algoritma naive bayes dan logistic regression untuk analisis sentimen metaverse,” *JURNAL MEDIA INFORMATIKA BUDIDARMA*, vol. 8, no. 2, pp. 714–725, 2024.

- [28] S. Ernawati, F. Frieyadie, and E. R. Yulia, “Cybersentinel: The cyberbullying detection application based on machine learning and vader lexicon with grid-searchcv optimization,” *Journal of Electronics, Electromedical Engineering, and Medical Informatics*, vol. 6, no. 4, pp. 533–542, 2024.
- [29] A. F. Noor. “Dosen unnm ciptakan aplikasi cybersentinel untuk deteksi cyberbullying.” Accessed: 2024-10-24. (Aug. 2024), [Online]. Available: <https://news.republika.co.id/berita/sinvkk490/dosen-unnm-ciptakan-aplikasi-cybersentinel-untuk-deteksi-cyberbullying>.
- [30] A. F. Noor. “Dosen unnm ciptakan aplikasi cybersentinel untuk deteksi cyberbullying.” Accessed: 2024-10-16. (2024), [Online]. Available: <https://news.republika.co.id/berita/sinvkk490/dosen-unnm-ciptakan-aplikasi-cybersentinel-untuk-deteksi-cyberbullying>.
- [31] H. Putri. “Dosen unnm ciptakan aplikasi cybersentinel untuk deteksi cyberbullying.” Accessed: 2024-10-24. (Aug. 2024), [Online]. Available: <https://nusantara-post.com/gaya-hidup/dosen-unnm-ciptakan-aplikasi-cybersentinel-untuk-deteksi-cyberbullying/74754/>.
- [32] S. Pramesti Tri Jata Ayu, *Jerat pasal bullying di sekolah*, Accessed: 16-10-2024, 2024. [Online]. Available: <https://www.hukumonline.com/klinik/a/jerat-pasal-bullying-di-sekolah-lt550264153eb3a/>.
- [33] UNICEF Indonesia, *Cyberbullying: Apa itu dan bagaimana menghentikannya*, Accessed: 16-10-2024, No publication year available. [Online]. Available: <https://www.unicef.org/indonesia/id/child-protection/apa-itu-cyberbullying>.
- [34] S. Fathima, *Learn how to do model fine-tuning: Challenges, metrics & best practices*, Accessed: 05-12-2023, Dec. 2023. [Online]. Available: <https://www.markovml.com/blog/model-fine-tuning>.
- [35] L. Craig, *What is fine-tuning in machine learning and ai?* Accessed: 10-11-2024, Jul. 2024. [Online]. Available: <https://www.techtarget.com/searchenterpriseai/definition/fine-tuning>.
- [36] S. Fathima, *Learn how to do model finetuning: Challenges, metrics & best practices*, Accessed: 2024-11-30, Dec. 2023. [Online]. Available: <https://www.markovml.com/blog/model-fine-tuning>.

- [37] Hyperright, *Beyond basics: 5 fine-tuning stages for precision in machine learning*, Accessed: 2024-11-10, May 2023. [Online]. Available: <https://hyperright.com/beyond-basics-5-fine-tuning-stages-for-precision-in-machine-learning/>.
- [38] Amazon Web Services, *What is hyperparameter tuning?* Accessed: 09-11-2024, 2024. [Online]. Available: <https://aws.amazon.com/what-is/hyperparameter-tuning/>.
- [39] A. Retnowardhani and T. Ramdani, *Apakah deep learning?* Accessed: 10-11-2024, 2019. [Online]. Available: <https://mmsi.binus.ac.id/2019/11/26/apakah-deep-learning/>.
- [40] F. Syaharuddin and H. Suprajitno, "The formula study in determining the best number of neurons in neural network backpropagation architecture with three hidden layers," *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, vol. 6, no. 3, p. 4049, 2022, Accessed: 10-11-2024. DOI: 10.29207/resti.v6i3.4049. [Online]. Available: <https://jurnal.iaii.or.id/index.php/RESTI/article/view/4049>.
- [41] M. Cacic, *What are fine-tuning hyperparameters and how to set them just right*, Accessed: 10-11-2024, Aug. 2023. [Online]. Available: <https://www.entrypointai.com/blog/fine-tuning-hyperparameters/>.
- [42] M. S. Wibawa, "Pengaruh fungsi aktivasi, optimisasi dan jumlah epoch terhadap performa jaringan saraf tiruan," *Jurnal Sistem dan Informatika (JSI)*, vol. 11, no. 2, pp. 167–174, 2017.
- [43] A. Pauls and J. Yoder, "Determining optimum drop-out rate for neural networks," in *Midwest Instructional Computing Symposium (MICS)*, 2018.
- [44] T. Babbar, *Are your machine learning models making these common mistakes? learn how to avoid overfitting and underfitting*, Accessed: 2024-11-30, Apr. 2023. [Online]. Available: <https://blog.alliedoffsets.com/are-your-machine-learning-models-making-these-common-mistakes-learn-how-to-avoid-overfitting-and-underfitting>.
- [45] G. D. Nursyafitri, *Model overfitting & underfitting di machine learning*, Accessed: 16-10-2024, 2023. [Online]. Available: <https://dqlab.id/model-overfitting-and-underfitting-di-machine-learning>.

- [46] M. Vijay. “What is the difference between training loss, validation loss, and evaluation loss.” Accessed: 2024-10-16. (Oct. 2023), [Online]. Available: <https://medium.com/@penpencil.blr/what-is-the-difference-between-training-loss-validation-loss-and-evaluation-loss-c169ddeccd59>.
- [47] K. Pykes, *Cross-entropy loss function in machine learning: Enhancing model accuracy*, Accessed: 16-10-2024, 2024. [Online]. Available: <https://www.datacamp.com/tutorial/the-cross-entropy-loss-function-in-machine-learning>.
- [48] Nikhil9ca8, *Validasi vs. akurasi pengujian vs. pelatihan. mana yang dibandingkan untuk mengklaim overfit?* Accessed: 16-10-2024, 2024. [Online]. Available: https://www.geeksforgeeks.org/validation-vs-test-vs-training-accuracy-which-one-is-compared-for-claiming-overfit/?ref=next_article.
- [49] A. R. Hanum, I. A. Zetha, S. C. Putri, *et al.*, “Analisis kinerja algoritma klasifikasi teks bert dalam mendeteksi berita hoaks,” *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 11, no. 3, pp. 537–546, 2024.
- [50] Rina, *Memahami confusion matrix: Accuracy, precision, recall, specificity, dan f1-score untuk evaluasi model klasifikasi*, Accessed: 16-10-2024, 2023. [Online]. Available: <https://esairina.medium.com/memahami-confusion-matrix-accuracy-precision-recall-specificity-dan-f1-score-610d4f0db7cf>.
- [51] S. Poudel, *Recurrent neural network (rnn) architecture explained*, Accessed: 2024-12-09, Aug. 2023. [Online]. Available: <https://medium.com/@poudelsushmita878/recurrent-neural-network-rnn-architecture-explained-1d69560541ef>.
- [52] T. Joseph, *Introducing recurrent neural networks*, Diakses pada 2024-11-09, Sep. 2020. [Online]. Available: <https://towardsdatascience.com/introducing-recurrent-neural-networks-f359653d7020>.
- [53] A. W. Services, *What is rnn (recurrent neural network)?* Accessed: 2024-11-12, 2024. [Online]. Available: https://aws.amazon.com/what-is/recurrent-neural-network/?nc1=h_ls.
- [54] V. Gallan, *Lstm (long short term memory)*, Diakses pada 2024-11-09, Mar. 2023. [Online]. Available: <https://medium.com/bina-nusantara-it-division/lstm-long-short-term-memory-d29779e2ebf8>.

- [55] *Hybrid techniques to predict solar radiation using support vector machine and search optimization algorithms: A review*, Accessed: 2024-12-09, Jan. 2021. [Online]. Available: https://www.researchgate.net/figure/General-architecture-of-a-support-vector-maching-SVM-model-according-to-55_fig3_348745187.
- [56] IBM, *Apa itu support vector machines (svm)?* Accessed: 2024-11-12, Dec. 2023. [Online]. Available: <https://www.ibm.com/id-id/topics/support-vector-machine>.
- [57] RevoU, *Algoritma naive bayes*, Diakses pada 2024-11-09, 2022. [Online]. Available: <https://revou.co/kosakata/algoritma-naive-bayes>.
- [58] D. Sierra, *Algoritma tf-idf*, Diakses pada 2024-11-09, Feb. 2019. [Online]. Available: <https://dltsierra.medium.com/algoritma-tf-idf-633e17d10a80>.
- [59] J. Frej, P. Mulhem, D. Schwab, and J.-P. Chevallet, "Learning term discrimination," in *Proceedings of the 43rd International ACM SIGIR Conference on Research and Development in Information Retrieval*, 2020, pp. 1993–1996.
- [60] R. Tracker, *Apa itu tf-idf?* Diakses pada 2024-11-09, 2022. [Online]. Available: <https://www.ranktracker.com/id/seo/glossary/td-idf/>.
- [61] N. Habbat, H. Anoun, and L. Hassouni, "Arabertopic: A neural topic modeling approach for news extraction from arabic facebook pages using pre-trained bert transformer model," *International Journal Of Computing and Digital System*, vol. 14, 2021.
- [62] P. Nabila and E. B. Setiawan, "Adam and adamw optimization algorithm application on bert model for hate speech detection on twitter," *2024 International Conference on Data Science and Its Applications (ICoDSA)*, pp. 346–351, 2024. [Online]. Available: <https://api.semanticscholar.org/CorpusID:272432470>.
- [63] A. Rahmawati, A. Alamsyah, and A. Romadhony, "Hoax news detection analysis using indobert deep learning methodology," *2022 10th International Conference on Information and Communication Technology (ICoICT)*, pp. 368–373, 2022. [Online]. Available: <https://api.semanticscholar.org/CorpusID:253047025>.
- [64] A. B. Y. A. Putra and Y. Sibaroni, "Disinformation detection on 2024 indonesia presidential election using indobert," *2023 International Conference on Data Science and Its Applications (ICoDSA)*, pp. 350–355, 2023. [Online]. Available: <https://api.semanticscholar.org/CorpusID:264293048>.

- [65] L. R. Aini, E. Nurfadhilah, A. Jarin, A. Santosa, and M. T. Uliniansyah, “Enhancing sentiment analysis models through multi-technique data augmentation: A study with indobert,” *2023 International Conference on Computer, Control, Informatics and its Applications (IC3INA)*, pp. 137–142, 2023. [Online]. Available: <https://api.semanticscholar.org/CorpusID:264294774>.
- [66] IndoNLP, *Cendol*, Hugging Face, Accessed: 2024-10-18, 2024. [Online]. Available: <https://huggingface.co/indonlp/cendol>.
- [67] RevoU, *Apa itu pytorch?* Accessed: 2024-11-12, 2024. [Online]. Available: <https://revou.co/kosakata/pytorch>.
- [68] RevoU, *Apa itu tensorflow?* Accessed: 2024-11-12, 2024. [Online]. Available: <https://revou.co/kosakata/tensorflow>.
- [69] BISA AI, *Machine learning dengan scikit learn python*, Accessed: 2024-11-06, 2024. [Online]. Available: <https://bisa.ai/course/detail/MzU3/1>.
- [70] dqlab, *Machine learning & contoh perbandingan transformer*, Accessed: 16-10-2024, 2024. [Online]. Available: <https://dqlab.id/machine-learning-dan-contoh-perbandingan-transformer>.
- [71] Revou. “Google colaboratory: Panduan lengkap.” Accessed: 2024-10-10. (2024), [Online]. Available: <https://revou.co/kosakata/google-colab/#:~:text=Google%20Collaboratory%20atau%20Google%20Colab,kode%20Python%20melalui%20web%20browser>.
- [72] E. Sleightholm. “Getting started with google colab: A beginner’s guide.” Accessed: 2024-10-11. (2024), [Online]. Available: <https://www.marqo.ai/blog/getting-started-with-google-colab-a-beginners-guide>.
- [73] B. A. Isnanto. “Google colab: Definisi, kelebihan, dan cara menggunakan.” Accessed: 2024-10-10. (Oct. 2023), [Online]. Available: <https://inet.detik.com/cyberlife/d-6992733/google-colab-definisi-kelebihan-dan-cara-menggunakan>.
- [74] C. Stryker and J. Holdsworth. “What is nlp (natural language processing)?” Accessed: 2024-10-18. (Aug. 2024), [Online]. Available: <https://www.ibm.com/topics/natural-language-processing>.
- [75] “What is natural language processing (nlp)?” Accessed: 2024-10-18. (2024), [Online]. Available: https://aws.amazon.com/what-is/nlp/?nc1=h_ls.

- [76] MySkill. “Memahami lebih dalam cara kerja aplikasi x atau twitter.” Accessed: 2024-10-18. (2024), [Online]. Available: <https://blog.myskill.id/istilah-dan-tutorial/memahami-lebih-dalam-cara-kerja-aplikasi-x-atau-twitter/>.