

## DAFTAR PUSTAKA

- Abambres, M., Corrêa, R., Costa, A. P. da, & Simões, F. (2019). Potential of neural networks for maximum displacement predictions in railway beams on frictionally damped foundations. *ACI Avances en Ciencias e Ingenierías*, 11(2), 154–181.
- Abdurrohim, I., & Rahman, A. (2024). Penerapan Natural Language Processing untuk Analisis Sentimen terhadap Kebijakan Pemerintah. *Jurnal Kebangsaan Republik Indonesia*, 1(2), 55–60.
- Adiman, M. F., Baharuddin, Ikhlas, A., Safarudin, M. S., Syahputra, M., & Sawlani, D. K. (2024). Pengembangan Aplikasi Berbasis Artificial Intelligence (AI) mengubah Pradigma Teknologi Informasi. *Indonesian Research Journal on Education Web Jurnal Indonesian Research Journal on Education*, 4(4), 3084–3094.
- Alhababi, W. I., & Mulhim, A. W. (2024). What are the Embedded Systems. *International Journal of Innovative Science and Research Technology*, 9(9), 1585–1587.
- Al-Otaibi, S., Altwoijry, N., Alqahtani, A., Aldheem, L., Alqhatani, M., Alsuraiby, N., Alsaif, S., & Albarrak, S. (2022). Cosine similarity-based algorithm for social networking recommendation. *International Journal of Electrical and Computer Engineering (IJECE)*, 12(2), 1881–1892.
- Armacanqui, J. S., Nash, S. S., Gormendia, L. E., & Moghanloo, R. (2024). Sustainability Applied to Unconventional Oil and Gas Field Exploration and Development. IGI Global.
- Asri, Y., Kuswardani, D., Horhoruw, L. F. M., & Ramadhana, S. A. (2024). MACHINE LEARNING & DEEP LEARNING: Analisis Sentimen Menggunakan Ulasan Pengguna Aplikasi. *Uwais Inspirasi indonesia*.
- Asri, Y., Kuswardani, D., Ramadhana, S. A., TS, J. F. P., Marbun, D. U. N., Fatimah, F. N., & Qoriza, Z. (2025). OPTIMALISASI ANALISIS SENTIMEN DENGAN SPELLING CORRECTOR. *Uwais Inspirasi Indonesia*.

- Bilal, M., & Almazroi, A. A. (2022). Effectiveness of Fine-tuned BERT Model in Classification of Helpful and Unhelpful Online Customer Reviews. *Electronic Commerce Research*, 23, 2737–2757.
- Chiny, M., Chihab, M., Bencharef, O., & Chihab, Y. (2022). Netflix Recommendation System based on TF-IDF and Cosine Similarity Algorithms. *2nd International Conference on Big Data, Modelling and Machine Learning (BML 2021)*, 15–20.
- Choudhary, A., & Arora, A. (2024). Assessment of bidirectional transformer encoder model and attention based bidirectional LSTM language models for fake news detection. *Journal of Retailing and Consumer Services*, 76, 1–10.
- Darma, I. W. A. S., Putra, P. R. M., Sugiartawan, P., Waas, V., & Sutramiani, N. P. (2023). A Fine-tuned BERT-based Approach for Sentiment Analysis of Indonesian Public Towards ChatGPT. *Proceedings - International Conference on Smart-Green Technology in Electrical and Information Systems, ICSGTEIS*, 88–93.
- Devlin, J., Chang, M.-W., Lee, K., & Toutanova, K. (2019). BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding. *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*, 4171–4186.
- Fatwanto, A., Zamakhsyari, F., Ndungi, R., & Fitriyani, N. L. (2024). A Systematic Literature Review of BERT-based Models for Natural Language Processing Tasks. *16(4)*, 713–728.
- Fauzy, A. R. I., & Setiawan, E. B. (2023). Detecting Fake News on Social Media Combined with the CNN Methods. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, 7(2), 271–277.
- Fitra, M. R. A., Effendi, A. A. S., & Ramadhani, F. (2025). Implementasi Python dalam Pengolahan Data Pribadi Mahasiswa Ilmu Komputer Angkatan 23 pada Universitas Negeri Medan menggunakan Struktur Data Linked List. *Jurnal Mahasiswa Teknik Informatika*, 9(1), 51–58.

- Geetha, M. P., & Renuka, D. K. (2021). Improving the performance of aspect based sentiment analysis using fine-tuned Bert Base Uncased model. *International Journal of Intelligent Networks*, 2, 64–69.
- Gunawan, F., Cholissodin, I., & Adikara, P. P. (2021). Pemerolehan Informasi Artikel terkait Covid-19 dengan menggunakan Metode Vector Space Model dan Word2Vec untuk Query Expansion. *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, 5(3), 960–968.
- Haeruddin, Erick, & Aripardono, H. W. (2025). Perbandingan Support Vector Machine, Random Forest Classifier, dan K-Nearest Neighbour dalam Pendeteksian Anomali pada Jaringan DDoS. *Jurnal Teknologi Informasi dan Multimedia*, 7(1), 23–33.
- Hassan, S. U., Ahamed, J., & Ahmad, K. (2022). Analytics of Machine Learning-Based Algorithms for Text Classification. *Sustainable Operations and Computers*, 3(1), 238–248.
- Hristova, P. K., Ivanovic, M., & Diri, B. (2022). Special issue: Innovations in Intelligent Systems and Applications. *Journal of Information and Telecommunication*, 6(1), 1–5.
- Jayarana, I. G. N. A., Darma, I. G. W., Juliantara, I. W. A., & Putra, I. M. A. W. (2025). STUDY LITERATUR INFORMATION RETRIEVAL MODEL: TEKNIK DAN APLIKASI. *JURNAL SUTASOMA*, 3(1), 61–69.
- Khoirunnisaa, N., Kesuma, K. N. N., Setiawan, S., & Yusuf, A. Y. P. (2024). Klasifikasi Teks Ulasan Aplikasi Netflix Pada Google Play Store Menggunakan Algoritma Naive Bayes dan SVM. 7(1), 64–73.
- Knees, P., Neidhardt, J., & Nalis, I. (2024). Recommender Systems: Techniques, Effects, and Measures Toward Pluralism and Fairness. Dalam *Introduction to Digital Humanism* (hlm. 417–434). Springer Nature.
- KS, S., & Shajan, R. (2024). Evaluating Similarity Measures in Collaborative Filtering: Insights into Accuracy, Precision, and Computational Performance. *GEM Journal*, 4(1), 99–108.
- Kurniawan, D. (2022). *Pengenalan Machine Learning dengan Python*. Elex Media Komputindo.

- Li, J. (2023). Fine-Grained Sentiment Analysis with a Fine-Tuned BERT and an Improved Pre-Training BERT. *International Conference on Image Processing and Computer Applications (ICIPCA)*, 1031–1034.
- Li, X., Wang, X., & Liu, H. (2021). Research on fine-tuning strategy of sentiment analysis model based on BERT. *2021 International Conference on Communications, Information System and Computer Engineering (CISCE)*, 798–802.
- Lumbansiantar, S., Dwiasnati, S., & Fatonah, N. S. (2023). Penerapan Metode Cosine Similarity dalam Mendeteksi Plagiarisme pada Jurnal. *Format*, 12(2), 142–150.
- Mayasari, N., Andriani, E., & Hibrida, A. R. (2023). Revolutionizing Business Operations: A Bibliometric Analysis of Enterprise Systems and Organizational Efficiency. *The Eastasouth Journal of Information System and Computer Science*, 1(1), 45–54.
- Memoon, M., Umar, M., Rani, S., Khalid, M., & Shaheen, S. (2024). Twitter News Classification Using Machine Learning. *2024 International Conference on Engineering & Computing Technologies (ICECT)*, 1–7.
- Nabil, A. A., Das, D., Salim, M. S., Arifeen, S., & Fattah, H. M. A. (2023). Bangla Emergency Post Classification on Social Media using Transformer Based BERT Models. *6th International Conference on Electrical Information and Communication Technology (EICT)*, 1–6.
- Nabila, P., & Setiawan, E. B. (2024). 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)*, 346–351.
- Oktavian, R., Gemasih, H., & Syahputra, H. (2023). Sistem rekomendasi kue terfavorit menggunakan metode collaborative filtering berbasis website pada Toko Kue Junior Bakery. *Jurnal Teknik Elektro dan Informatika*, 5(1), 43–60.
- Pari, R. A., & Kurniawan, D. (2021). Sistem Rekomendasi Keterampilan dengan Metode User-Based Collaborative Filtering dan Tanimoto Coefficient Similarity. *Jurnal Teknologi Informasi*, 16(2), 52–62.

- Pebdika, A., Herdiana, R., & Solihudin, D. (2023). Klasifikasi menggunakan metode Naive Bayes untuk menentukan calon penerima PIP. *Jurnal Mahasiswa Teknik Informatika*, 7(1), 452–458.
- Pradipta, D., & Widodo, E. (2024). Sentiment Analysis on Social Media using Bidirectional Encoder from Transformers (Case Study : Covid – 19 Omicron). *Jurnal Informatika dan Sistem Informasi*, 16(2), 267–281.
- Prasanthi, K. N., Madhavi, R. E., Sabarinadh, D. N. S., & Sravani, B. (2023). A Novel Approach for Sentiment Analysis on social media using BERT & ROBERTA Transformer-Based Models. *International Conference for Convergence in Technology (I2CT)*, 1–6.
- Putra, R. P., Putri, N. A., & Putra, A. D. (2024). Teknik Cosine Similarity Dan TF-IDF Dalam Analisis Data. *Serasi Media Teknologi*.
- Qasim, R., Bangyal, W. H., Alqarni, M. A., & Almazroi, A. A. (2022). A Fine-Tuned BERT-Based Transfer Learning Approach for Text Classification. *Journal of Healthcare Engineering*, 2022, 1–17.
- Rehman, S., Irtaza, A., Nawaz, M., & Kibriya, H. (2022). Text Document Classification Using Deep Learning Techniques. *2022 International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering (ELECTE)*, 1–6.
- Reswara, C. G., Nicolas, J., Ananta, M., & Kurniadi, F. I. (2023). Anime Recommendation System Using BERT and Cosine Similarity. *4th International Conference on Artificial Intelligence and Data Sciences*, 109–113.
- Salman, A. H., & Al-Jawher, W. (2023). A New Multi-class Classification Method Based on Machine Learning to Document Classification. *16th International Conference on Developments in eSystems Engineering (DeSE)*, 605–610.
- Sankar, S., Muslihuddeen, H., Ostwal, S., Sathvika, P., & Madasamy, A. K. (2023). CISER: Customized Institute Specific Search Engine for Retrieving Research Papers. *4th International Conference on Innovative Trends in Information Technology (ICITIIT)*, 1–5.

- Sari, R. M., Pratama, D. A., Damara, D. A., Kurniawan, M. A., Fantika, A., Ramadhan, R., Meliala, S. S., Hadyan, F., & Abhipraya, Y. (2024). Klasifikasi Data Mining. Serasi Media.
- Shah, R. K., Kumar, S., & Shashank. (2023). Multilabel News Category Classification using Machine Learning. Proceedings of the 8th International Conference on Communication and Electronics Systems (ICCES 2023), 1245–1250.
- Sudirman, I. D., & Setiawan, M. (2024). Sentiment Analysis on Biodegradable Trash Bags Using a Fine-Tuned BERT Model. 7th International Seminar on Research of Information Technology and Intelligent Systems (ISRITI), 155–159.
- Sukmawati, E. C., Suryaningrum, L., Angelica, D., & Ramadhan, N. G. (2024). Klasifikasi Berita Palsu Menggunakan Model Bidirectional Encoder Representations From Transformers (BERT). Jurnal Sistem Informasi dan Informatika, 6(2), 76–85.
- Suryantara, I. G. N. (2024). PYTHON: Implementasi Algoritma Kompleks dalam Era Industri 5.0 dan Society 5.0. Elex Media Komputindo. <https://books.google.co.id/books?id=reYnEQAAQBAJ>
- Susandri, & Ratri, S. (2022). Machine Learning : Review Omnibus Law UU Cipta Kerja. Jakad Media Publishing.
- Telaumbanua, K., & Nababan, L. (2022). Implementasi Metode Cosine Similarity Dalam Mendeteksi Kemiripan Dan Perbedaan Gambar Hasil Scan Berbasis Android. Jurnal IEED (Informatics Engineering and Electronic Data), 1(1), 27–36.
- Terven, J., Cordova-Esparza, D.-M., Romero-González, J.-A., Alfonso Ramírez-Pedraza, & Chávez-Urbiola, E. A. (2025). A comprehensive survey of loss functions and metrics in deep learning. Artificial Intelligence Review, 58(195), 1–172.
- Vaswani, A., Shazeer, N., Parmar, N., Uszkoreit, J., Jones, L., Gomez, A. N., Kaiser, Ł., & Polosukhin, I. (2017). Attention Is All You Need. 31st

- Conference on Neural Information Processing Systems (NIPS 2017), 5998–6008.
- Widiantoro, A. D., Mustafid, & Sanjaya, R. (2024). Pengantar NLP dan Topik Model LDA. Asosiasi Doktor Sistem Informasi Indonesia.
- Widodo, R. B. (2022). Machine Learning Metode k- Nearest NeightBors Klasifikasi Angka Bahasa Isyarat. Media Nusa Creative.
- Wiwatthanasethakarn, P., Ponthongmak, W., Looareesuwan, P., Tansawet, A., Numthavaj, P., McKay, G. J., Attia, J., & Thakkinstian, A. (2024). Development and Validation of a Literature Screening Tool: Few-Shot Learning Approach in Systematic Reviews. *Journal of Medical Internet Research*, 26, 1–12.
- Xu, H., Fan, G., Kuang, G., & Wang, C. (2023). Exploring the Potential of BERT-BiLSTM-CRF and the Attention Mechanism in Building a Tourism Knowledge Graph. *Electronics*, 12, 1–22.
- Yanti, N. P. E. D., Triana, I. K. D. L., Wahyudin, Y., Suarningsih, N. K. A., & Marlina, T. (2024). Karya Tulis Ilmiah : Teori & Pedoman penulisan karya ilmiah. PT. Sonpedia Publishing Indonesia.
- Yu, B., Deng, C., & Bu, L. (2022). Policy Text Classification Algorithm Based on Bert. 11th International Conference of Information and Communication Technology (ICTech), 488–491.
- Zakharia, A., Ulhaq, A. D., Suryono, A. B., Nugroho, N. C., Hafith, D. F., & Gusmao, N. D. A. (2024). Sistem Rekomendasi Film Indonesia Menggunakan Metode Content-Based Filtering. *Jurnal Ilmu Komputer dan Pendidikan*, 2(4), 671–678.
- Zikrina, S. A., & Fitriyani. (2025). Advancing Hate Speech Detection in Indonesian Language Using Graph Neural Networks and TF-IDF. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, 9(1), 137–145.
- Zuluaga, M., Arbelaez-Echeverri, O., Robledo, S., Osorio-Zuluaga, G. A., & Duque-Méndez, N. (2022). There’s an App for That Tree of Science-ToS: A Web-based Tool for Scientific Literature Recommendation. *Search Less, Research More! Issues in Science and Technology Librarianship*, 1–10.