

Daftar Pustaka

- Adelle, C., & Weiland, S. (2012). Policy assessment: The state of the art. *Impact Assessment and Project Appraisal*, 30(1), 25–33. <https://doi.org/10.1080/14615517.2012.663256>
- AĞRALI, Ö., & AYDIN, Ö. (2021). Tweet Classification and Sentiment Analysis on Metaverse Related Messages. *Journal of Metaverse*, 1(1), 25-30.
- Akbari, W. A., Tukino, T., Huda, B., & Muslih, M. (2023). Sentiment Analysis of Twitter User Opinions Related to Metaverse Technology Using Lexicon Based Method. *Sinkron: jurnal dan penelitian teknik informatika*, 8(1), 195-201.
- Akiba, T., Sano, S., Yanase, T., Ohta, T., & Koyama, M. (2019, July). Optuna: A next-generation hyperparameter optimization framework. In *Proceedings of the 25th ACM SIGKDD international conference on knowledge discovery & data mining* (pp. 2623-2631).
- Amanda, L., Yanuar, F., & Devianto, D. (2019). Uji Validitas dan Reliabilitas Tingkat Partisipasi Politik Masyarakat Kota Padang. *Jurnal Matematika UNAND*, 8(1), 179. <https://doi.org/10.25077/jmu.8.1.179-188.2019>
- Ananda, P. Komparasi Model Optimasi Genetic Algorithm dengan Particle Swarm Optimization terhadap Metode RNN-BiLSTM pada Analisis Opini Publik terkait Non-Fungible Token (NFT).
- Arden, F., & Safitri, C. (2022, December). Hyperparameter Tuning Algorithm Comparison with Machine Learning Algorithms. In *2022 6th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE)* (pp. 183-188). IEEE.
- Audrey, O., Ratnawati, D. E., & Arwani, I. (2022). Analisis Sentimen Pengguna Twitter Terhadap Opini Non Fungible Token di Indonesia Menggunakan Algoritma Random Forest Classifier. *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, 6(12), 5889-5897.
- Azmi, N. F., Hasan, H., & Yusoff, M. N. H. (2023). An Empirical Study of Governance Challenges: Lesson Learnt from Australian Islamic Charitable Institution. In *Studies in Systems, Decision and Control* (Vol. 216). https://doi.org/10.1007/978-3-031-10212-7_25
- Bergstra, J., Yamins, D., & Cox, D. D. (2013). Making a science of model search: Hyperparameter optimization in hundreds of dimensions for vision architectures. Proceedings of the 30th International Conference on Machine Learning (ICML-13), 115-123.
- Bhugaonkar, K., Bhugaonkar, R., & Masne, N. (2022). The Trend of Metaverse and Augmented & Virtual Reality Extending to the Healthcare System. *Cureus*, 14(9). <https://doi.org/10.7759/cureus.29071>

- Budiastuti, D., & Bandur, A. (2018). Validitas dan Reliabilitas Penelitian. In *Binus*.
www.mitrawacanamedia.com
- B. Muller, "huggingface bert 101," BERT 101 STATE OF THE ART NLP MODEL EXPLAINED, 2 Maret 2022. [Online]. Available: <https://huggingface.co/blog/bert-101>. [Accessed 28 Agustus 2022].
- Birjali, M., Kasri, M., & Beni-Hssane, A. (2021). A comprehensive survey on sentimen analysis: Approaches, challenges and trends. *Knowledge-Based Systems*, 226, 107134.
- Burgess, J., & Baym, N. K. (2022). *Twitter: A biography*. NYU Press.
- Claesen, M., Simm, J., Popovic, D., & Moor, B. (2014, September). Hyperparameter tuning in python using optunity. In *Proceedings of the international workshop on technical computing for machine learning and mathematical engineering* (Vol. 1, p. 3).
- Deolika, A., Kusrini, K., & Luthfi, E. T. (2019). Analisis Pembobotan Kata Pada Klasifikasi Text mining. *Jurnal Teknologi Informasi*, 3(2), 179. <https://doi.org/10.36294/jurti.v3i2.1077>
- Diogo, J., & Veiga, P. M. (2022). *Metaverse Applications in Business*. 110–136.
<https://doi.org/10.4018/978-1-6684-5538-8.ch006>
- Duwe, D. ;, Busch, M. ;, & Weissenberger-Eibl, M. A. (2022). *Enabling the Metaverse. Whitepaper on international user preferences, business models and innovation processes in the Metaverse*. 1–25. <https://doi.org/10.24406/publica-220>,<https://publica.fraunhofer.de/handle/publica/419731>
- Dwivedi, Y. K., Hughes, L., Baabdullah, A. M., Ribeiro-Navarrete, S., Giannakis, M., Al-Debei, M. M., Dennehy, D., Metri, B., Buhalis, D., Cheung, C. M. K., Conboy, K., Doyle, R., Dubey, R., Dutot, V., Felix, R., Goyal, D. P., Gustafsson, A., Hinsch, C., Jebabli, I., ... Wamba, S. F. (2022). Metaverse beyond the hype: Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. *International Journal of Information Management*, 66(July), 102542. <https://doi.org/10.1016/j.ijinfomgt.2022.102542>
- Elgeldawi, E., Sayed, A., Galal, A. R., & Zaki, A. M. (2021, November). Hyperparameter tuning for machine learning algorithms used for arabic sentimen analysis. In *Informatics* (Vol. 8, No. 4, p. 79). MDPI.
- Habibie, M. I., Widiaputra, T., & Yulianingsani, Y. (2022). Web Scraping of Disease Information from social media Twitter. *Jurnal Teknoinfo*, 16(2), 246-251.
- Harrisson-Boudreau, J. P., & Bellemare, J. (2022). Going Above and Beyond eCommerce in the Future Highly Virtualized World and Increasingly Digital Ecosystem. In *Lecture Notes in Mechanical Engineering* (Issue November). Springer International Publishing.
https://doi.org/10.1007/978-3-030-90700-6_90

- Hayawi, K., Shahriar, S., Serhani, M. A., & Alothali, E. (2022). Inevitable-Metaverse: A Novel Twitter Dataset for Public Sentiments on Metaverse.
- Hazan, E., Kelly, G., Khan, H., Spillecke, D., & Yee, L. (2022). Marketing in the metaverse: An opportunity for innovation and experimentation. *The McKinsey Quarterly*.
- Herianto. (2018). *Penerapan Text-Mining Untuk Mengidentifikasi Pengguna Twitter Terhadap Fenomena Peran Dpr Ri*. VIII(2), 36–44.
- Hernandez-Suarez, A., Sanchez-Perez, G., Toscano-Medina, K., Martinez-Hernandez, V., Sanchez, V., & Perez-Meana, H. (2018). A web scraping methodology for bypassing twitter API restrictions. *arXiv preprint arXiv:1803.09875*.
- Hidayatullah, A. F., & Nayoan, R. A. N. (2019). *Analisis Sentimen Berbasis Fitur pada Ulasan Tempat Wisata Menggunakan Metode Convolutional Neural Network(CNN)*. www.cnet.com.
- Hollensen, S., Kotler, P., & Opresnik, M. O. (2022). Metaverse – the new marketing universe. *Journal of Business Strategy*. <https://doi.org/10.1108/JBS-01-2022-0014>
- Huang, H., Zhang, Q., Li, T., Yang, Q., Yin, Z., Wu, J., Xiong, Z., Zhu, J., Wu, J., & Zheng, Z. (2022). *Economic Systems in Metaverse: Basics, State of the Art, and Challenges*. <http://arxiv.org/abs/2212.05803>
- Hwang, Y., Shin, D., & Lee, H. (2023). Students' perception on immersive learning through 2D and 3D metaverse platforms. *Educational technology research and development*, 1-22.
- Jeong, H., Yi, Y., & Kim, D. (2022). an Innovative E-Commerce Platform Incorporating Metaverse To Live Commerce. *International Journal of Innovative Computing, Information and Control*, 18(1), 221–229. <https://doi.org/10.24507/ijicic.18.01.221>
- Khatri, M. (2022). Revamping the Marketing World with Metaverse – The Future of Marketing. *International Journal of Computer Applications*, 184(29), 1–5. <https://doi.org/10.5120/ijca2022922361>
- Kukich, K. Techniques for automatically correcting words in text. *Acm Comput. Surv.* 1992, 24, 377–439.
- Kusumastuti, A., & Khoiron, A. M. (2019). *Metode penelitian kualitatif*. Lembaga Pendidikan Sukarno Pressindo (LPSP).
- Liu, D., & Al-Tabbaa, O. (2019). The role of gap analysis in sustainable construction project management. *Journal of Cleaner Production*, 228, 672-685.
- Mahrus Zain, M., Nathamael Simbolon, R., Sulung, H., & Anwar, Z. (2021). Analisis Sentimen Pendapat Masyarakat Mengenai Vaksin Covid-19 Pada Media Sosial Twitter dengan Robustly Optimized BERT Pretraining Approach. *Jurnal Komputer Terapan*, 7(Vol. 7 No. 2 (2021)),

- 280–289. <https://doi.org/10.35143/jkt.v7i2.4782>
- Mandias, F. A., Penerapan Data Mining Untuk Evaluasi Kinerja Akademik Mahasiswa Di Universitas Klabat Dengan Metode Klasifikasi, Konferensi Nasional Sistem & Informatika 2015, STIKOM Bali, 9-10 Oktober 2015, 2015
- Markopoulos, E., Luimula, M., Calbureanu-Popescu, C., Markopoulos, P., Ranttila, P., Laukkanen, S., Laivuori, N., Ravyse, W., Saarinen, J., & Nghia, T. (2021). Neural Network Driven Eye Tracking Metrics and Data Visualization in Metaverse and Virtual Reality Maritime Safety Training. *Discovery.Ucl.Ac.Uk, March.* <https://discovery.ucl.ac.uk/id/eprint/10153244/>
- Meepung, T., & Kannikar, P. (2022). Metaverse; Virtual World Challenges and Opportunities for Digital Business. *world, 15*, 18.
- Mondal, A. S., Zhu, Y., Bhagat, K. K., & Giacaman, N. (2022). Analysing user reviews of interactive educational apps: a sentiment analysis approach. *Interactive Learning Environments*, 1-18.
- Nuraliza, H., Pratiwi, O. N., & Hamami, F. (2022). Analisis Sentimen IMBd Film Review Dataset Menggunakan Support Vector Machine (SVM) dan Seleksi Feature Importance. *Jurnal Mirai Manajemen, 7*(1), 1–17.
- Pandu Nayak, "Understanding searches better than ever before," Google, 25 Oktober 2019. [Online]. Available: <https://blog.google/products/search/search-languageunderstanding-bert/>. [Accessed 30 November 2021].
- Petrigna, L., & Musumeci, G. (2022). The metaverse: A new challenge for the healthcare system: A scoping review. *Journal of functional morphology and kinesiology, 7*(3), 63.
- Pirinen, T.A.; Lindén, K. State-of-the-art in weighted finite-state spell-checking. In Computational Linguistics and Intelligent Text Processing, Proceedings of the CICLing 2014, Kathmandu, Nepal, 6–12 April 2014; Lecture Notes in Computer Science; Springer: Berlin/Heidelberg, Germany, 2014; Volume 8404, Part 2, pp. 519–532. [CrossRef]
- Probst, P., Wright, M. N., & Boulesteix, A. L. (2019). Hyperparameters and tuning strategies for random forest. *Wiley Interdisciplinary Reviews: data mining and knowledge discovery, 9*(3), e1301.
- Rukajat, A. (2018). *Pendekatan penelitian kualitatif (Qualitative research approach)*. Deepublish.
- Schmitt, M. (2023). Metaverse: Implications for Business, Politics, and Society. *SSRN Electronic Journal*.
- Shannon, C.E. A mathematical theory of communication. *Bell Syst. Tech. J.* 1948, 27, 623–656. [CrossRef]
- Shekar, B. H., & Dagnew, G. (2019, February). Grid search-based hyperparameter tuning and

- classification of microarray cancer data. In *2019 second international conference on advanced computational and communication paradigms (ICACCP)* (pp. 1-8). IEEE.
- Shekhar, S., Bansode, A., & Salim, A. (2021, December). A comparative study of hyper-parameter optimization tools. In *2021 IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE)* (pp. 1-6). IEEE.
- Strauss, A., & Corbin, J. (2003). Penelitian Kualitatif. *Yogyakarta: Pustaka Pelajar*.
- Sumayah, S., Sembiring, F., & Jatmiko, W. (2023). ANALYSIS OF SENTIMENT OF INDONESIAN COMMUNITY ON METAVERSE USING SUPPORT VECTOR MACHINE ALGORITHM. *Jurnal Teknik Informatika (Jutif)*, 4(1), 143-150.
- The-Virtual-Economy-of-the-Metaverse-Computer-Vision-and-Deep-Learning-Algorithms-Customer-Engagement-Tools-and-Behavioral-Predictive-AnalyticsLinguistic-and-Philosophical-Investigations (1).pdf*. (n.d.).
- Victoria, A. H., & Maragatham, G. (2021). Automatic tuning of *hyperparameters* using Bayesian optimization. *Evolving Systems*, 12, 217-223.
- Wang, F. Y., Qin, R., Wang, X., & Hu, B. (2022). MetaSocieties in Metaverse: MetaEconomics and MetaManagement for MetaEnterprises and MetaCities. *IEEE Transactions on Computational Social Systems*, 9(1), 2–7. <https://doi.org/10.1109/TCSS.2022.3145165>
- Weerts, H. J., Mueller, A. C., & Vanschoren, J. (2020). Importance of tuning *hyperparameters* of machine learning algorithms. *arXiv preprint arXiv:2007.07588*.
- Yani, D. D. A., Pratiwi, H. S., & Muhardi, H. (2019). Implementasi web scraping untuk pengambilan data pada situs marketplace. *JUSTIN (Jurnal Sistem dan Teknologi Informasi)*, 7(4), 257-262.
- Yulia, Y. (2019). Strategi yang digunakan dalam penelitian ini adalah Strategi Asosiatif. *Repositori STEI*, 2007, 45–61.
- Zhang, N., Jia, Q., Yin, K., Dong, L., Gao, F., & Hua, N. (2020). Conceptualized representation learning for chinese biomedical *text mining*. *arXiv preprint arXiv:2008.10813*.
- Zhu, R., Tu, X., & Huang, J. X. (2021). Utilizing BERT for biomedical and clinical *text mining*. In *Data analytics in biomedical engineering and healthcare* (pp. 73-103). Academic Press.
- <https://www.gramedia.com/literasi/metaverse-adalah/>