



DAFTAR PUSTAKA

- Agarwal, C. C. (2015). *Data Mining: The Textbook*. Springer.
- Bain, L. J., & Engelhardt, M. (1992). *Introduction to Probability and Mathematical Statistics*. Duxbury Press.
- Bird, S., Klein, E., & Loper, E. (2009). *Natural Language Processing with Python*. California: O'Reilly Media.
- Bird, S., Klein, E., & Loper, E. (2009). *Natural Language Processing with Python*. California: O'Reilly Media.
- Bojarski, M., Testa, D., Dworakowski, D., Firner, B., Flepp, B., Goyal, P., ... & Zieba, K. (2016). *End to end learning for self-driving cars*. arXiv preprint arXiv:1604.07316.
- Breiman, L. (2001). Random forests. *Machine Learning*, 45(1), 5–32.
- Cambria, E., Schuller, B., Xia, Y., & Havasi, C. (2013). *New Avenues in Opinion Mining and Sentiment Analysis*. *IEEE Intelligent Systems*, 28(2), 15-21.
- Chen, J., Liu, X., & Wang, Y. (2019). *The effect of sequence padding in neural network-based text classification*. *Journal of Artificial Intelligence Research*, 65.
- Chen, J., Liu, X., & Wang, Y. (2019). *The effect of sequence padding in neural network-based text classification*. *Journal of Artificial Intelligence Research*, 65.
- Chollet, F. (2018). *Deep Learning with Python*. s.l.:Manning Publications Co..
- Chollet, F. (2018). *Deep Learning with Python*. s.l.:Manning Publications Co..
- Coles, S. (2001). *An Introduction to Statistical Modeling of Extreme Values*. Springer.
- Damanhuri, R., & Husein, V. A. (2024). *Analisis sentimen pada ulasan aplikasi Access by KAI berbahasa Indonesia menggunakan word-embedding dan classical machine learning*. *Jurnal Masyarakat Informatika*, 15(1).
- Dehghani, M., & Yazdanparast, Z. (2023). *Political Sentiment Analysis of Persian Tweets Using CNN-LSTM Model*. arXiv preprint arXiv:2307.07740.



- Devlin, J., Chang, M.-W., Lee, K., Toutanova, K. (2019). *BERT: Pre-training of deep bidirectional transformers for language understanding*. In Proceedings of NAACL-HLT 2019 (pp. 4171–4186). Association for Computational Linguistics.
- Doane, D. P., & Seward, L. E. (2011). Measuring Skewness: A Forgotten Statistic? *Journal of Statistics Education*, 19(2).
- Freund, J. E., & Perles, B. M. (2007). *Modern Elementary Statistics* (12th ed.). Pearson.
- Friedman, J. H. (2001). *Greedy function approximation: A gradient boosting machine*. *Annals of Statistics*, 29(5), 1189–1232.
- Galarnyk, M. (2022). *Understanding Train Test Split*. Builtin. Diakses dari <https://builtin.com/data-science/train-test-split>
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*. MIT Press. Diakses dari <http://www.deeplearningbook.org>
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*. MIT Press. Diakses dari <http://www.deeplearningbook.org>
- Gu, J., Wang, Z., Kuen, J., Ma, L., Shahroudy, A., Shuai, B., ... & Chen, T. (2018). *Recent advances in convolutional neural networks*. *Pattern Recognition*, 77, 354–377.
- Haixiang, G., Yijing, L., Shang, J., Mingyun, G., Yuanyue, H., & Bing, G. (2017). *Learning from Imbalanced Data: Review of Methods and Applications*. *Expert Systems with Applications*, 73, 220–239.
- Hermanto, D. T., Setyanto, A., & Luthfi, E. T. (2021). *Algoritma LSTM-CNN untuk Sentimen Klasifikasi dengan Word2vec pada Media Online*. *Creative Information Technology Journal*, 8(1), 64–77.
- Hogg, R. V., & Craig, A. T. (2018). *Introduction to Mathematical Statistics* (8th ed.). Pearson, 12-13.
- Jang, B., Kim, Y., & Lee, H. (2020). *Effects of Noise on Deep Learning Models for Sentiment Analysis*. *Journal of Natural Language Processing*, 27(3), 456–472.
- Joulin, A., Grave, E., Bojanowski, P., & Mikolov, T. (2016). *Bag of Tricks for Efficient Text Classification*. arXiv preprint arXiv:1607.01759.



- Jurafsky, D., & Martin, J. H. (2025). *Speech and Language Processing* (3rd ed., draft). Stanford University & University of Colorado at Boulder. Diakses dari <https://web.stanford.edu/~jurafsky/slp3/>
- Kamarula, M. R. F., & Rochmawati, N. (2022). *Perbandingan CNN dan Bi-Lstm pada Analisis Sentimen dan Emosi Masyarakat Indonesia Di Media Sosial Twitter Selama Pandemi Covid-19 yang Menggunakan Metode Word2vec*. JINACS Universitas Negeri Surabaya, 4(2).
- Kassimali, A. (1999). *Matrix Analysis of Structures*. Brooks/Cole Publishing Company.
- Keating, C., & Shadwick, W. F. (2002). A Universal Performance Measure. *Journal of Performance Measurement*, 6(3), 59-84.
- Khan, A., Sohail, A., Zahoor, U., Qureshi, A. S. (2020). A survey of the recent architectures of deep convolutional neural networks. *Artificial Intelligence Review*, 53(8), 5455–5516.
- Kim, Y. (2014). *Convolutional neural networks for sentence classification*. arXiv preprint arXiv:1408.5882.
- Kingma, D. P., & Ba, J. (2014). *Adam: A method for stochastic optimization*. arXiv preprint arXiv:1412.6980.
- Krizhevsky, A., Sutskever, I., & Hinton, G. E. (2012). *ImageNet classification with deep convolutional neural networks*. Advances in Neural Information Processing Systems.
- LeCun, Y., Bottou, L., Bengio, Y., & Haffner, P. (1998). *Gradient-based learning applied to document recognition*. *Proceedings of the IEEE*, 86(11), 2278-2324.
- Liao, W., Xu, C., Guo, Y., Liu, H., & Yin, J. (2017). *CNN for text classification*. Proceedings of the International Conference on Artificial Intelligence and Soft Computing, 277-285.
- Litjens, G., Kooi, T., Bejnordi, B. E., Setio, A. A. A., Ciompi, F., Ghafoorian, M., ... & van der Laak, J. A. W. M. (2017). *A survey on deep learning in medical image analysis*. *Medical Image Analysis*, 42, 60-88.
- Masey, A. (1989). *Statistical Methods in Research and Production*. John Wiley & Sons.



- Medhat, W., Hassan, A., & Korashy, H. (2014). *Sentiment Analysis Algorithms and Applications: A Survey*. *Ain Shams Engineering Journal*, 5(4), 1093-1113.
- Mikalef, P., Pappas, I. O., Krogstie, J., & Giannakos, M. (2018). *Big Data Analytics Capabilities: A Systematic Literature Review and Research Agenda*. *Information Systems and e-Business Management*, 16(3), 547-578.
- Mikolov, T., Chen, K., Corrado, G., Dean, J. (2013). *Efficient estimation of word representations in vector space*. arXiv:1301.3781.
- Montgomery, D. C., & Runger, G. C. (2014). *Applied Statistics and Probability for Engineers* (6th ed.). Wiley.
- Nadeem. (2021, November 28). Bias-Variance Tradeoff Regularization. Medium – Analytics Vidhya. Diakses dari <https://medium.com/analytics-vidhya/bias-variance-tradeoff-regularization-5543d2d1ad8a>
- Nair, V., & Hinton, G. E. (2010). *Rectified linear units improve restricted Boltzmann machines*. *Proceedings of the 27th International Conference on Machine Learning*.
- Narkhede, S. (2018). *Understanding Confusion Matrix. Toward Data Science*. Diakses dari <https://towardsdatascience.com/understanding-confusion-matrixa9ad42dcfd62>
- Panigrahi, I., & Zhu, R. (2024). *Comparing importance sampling based methods for mitigating the effect of class imbalance*. arXiv preprint arXiv:2402.18742.
- Putra, J. W. G. (2020). *Pengenalan Konsep Pembelajaran Mesin dan Deep Learning Edisi 1,4,4*. Diakses dari <https://wiragotama.github.io/resources/ebook/intro-to-ml-secured.pdf>.
- Putri, N. I., (2022). *Support Vector Machine dengan Stochastic Gradient Descent Training (SVM-SGD) pada Analisis Sentimen*, Yogyakarta: Universitas Gadjah Mada.
- Rohatgi, V. K., & Saleh, A. K. M. E. (2015). *An Introduction to Probability and Statistics* (3rd ed.). Wiley.
- Ruder, S. (2016). *An overview of gradient descent optimization algorithms*. arXiv preprint arXiv:1609.04747.



- Russell, M. A. (2019). *Web Scraping with Python: Collecting More Data from the Modern Web* (2nd ed.). O'Reilly Media.
- Schmidhuber, J. (2015). *Deep learning in neural networks: An overview*. *Neural Networks*, 61, 85-117.
- Schuster, M., & Paliwal, K. K. (1997). *Bidirectional Recurrent Neural Networks*. *IEEE Transactions on Signal Processing*, 45(11), 2673-2681.
- Sulaiman, H., Razak, N., Husin, S., Yunus, S. (2024). *Optimizing Early Stage Diabetes Detection: A Robust Evaluation of Machine Learning Algorithms*. *International Journal of Academic Research in Business and Social Sciences*. 14. 10.6007/IJARBS/v14-i12/24408.
- Soares, L. D., Franco, E. M. C.. (2022). *BiGRU-CNN neural network applied to short-term electric load forecasting*. *Production*, 32, e20210087. <https://doi.org/10.1590/0103-6513.20210087>
- Soni, S., Patel, R., & Mehta, A. (2022). *The Impact of Noise on Convolutional Neural Networks for Text Classification*. *International Journal of Computational Linguistics*, 15(1), 34–50.
- Subanar (2012). *Statistika Matematika: Probabilitas, Distribusi, dan Asimtotis dalam Statistika*. Yogyakarta: Graha Ilmu.
- Susandri, S., Defit, S., & Tajuddin, M. (2024). *Enhancing text sentiment classification with hybrid CNN-BiLSTM*. *JTIM: Jurnal Teknologi Informasi dan Multimedia*, 15(3), 355-370.
- Vince. (2020, Juni 10). *Convolution Note*. Medium - vswe. Diakses pada 15 April 2025, dari <https://medium.com/vswe/convolution-note-bd23fbd5097f>
- Wolpert, D. H. (1992). *Stacked generalization*. *Neural Networks*, 5(2), 241–259.
- Yin, W., Kann, K., Yu, M., & Schütze, H. (2017). *Comparative study of CNN and RNN for natural language processing*. arXiv preprint arXiv:1702.01923.
- Yuliska, Qudsi, D. H., Lubis, J. H., Syaliman, K. U., & Najwa, N. F. (2021). *Analisis Sentimen pada Data Saran Mahasiswa terhadap Kinerja Departemen di Perguruan Tinggi Menggunakan Convolutional Neural Network*. *Jurnal Teknologi Informasi dan Ilmu Komputer (JTIK)*, 8(5), 1067-1076.



Zhang, Y., & Rao, P. (2020). *Fusion Techniques for Bidirectional LSTM in Sentiment Analysis*. IEEE Access, 8, 134567-134578.

Zeiler, M. D., & Fergus, R. (2013). *Visualizing and understanding convolutional networks*. European Conference on Computer Vision.

Zhao, Y. (2023). Complete Guide to RNN, LSTM, and Bidirectional LSTM [Blog post]. Dagshub. Diakses 14 April 2025, dari <https://dagshub.com/blog/rnn-lstm-bidirectional-lstm/>

Zhou, K., & Long, F. (2018). *Sentiment Analysis of Text Based on CNN and Bi-directional LSTM Model*. 2018 24th International Conference on Automation and Computing (ICAC).

Zhou, K., & Long, F. (2018). *Sentiment Analysis of Text Based on CNN and Bi-directional LSTM Model*. 2018 24th International Conference on Automation and Computing (ICAC).

Zhou, Z. H. (2012). *Ensemble Methods: Foundations and Algorithms*. Florida: Taylor & Francis.