

DAFTAR PUSTAKA

- [1] Deloitte Sports Business Group, “Annual Review of Football Finance 2023,” <https://www.deloitte.com/global/en/Industries/tmt/analysis/deloitte-football-money-league.html>, 2023, [Diakses: 12 Mei 2025].
- [2] Robert Calcutt. (2024, november) Premier League open door to 'Netflix of Football' operation with major broadcast change. talkSPORT. [Diakses: 12 Mei 2025]. [Online]. Available: <https://talksport.com/football/2308154/premier-league-broadcast-change-netflix-of-football/>
- [3] R. M. Galekwa, J. M. Tshimula, E. G. Tajeuna, and K. Kyamakya, “A systematic review of machine learning in sports betting: Techniques, challenges, and future directions,” *arXiv preprint arXiv:2410.21484*, 2024.
- [4] Nicholas Mendola, Joe Prince Wright. (2024, august) Premier League final table: Final standings for 2023-24 season. NBC Sports. [Diakses: 12 Mei 2025]. [Online]. Available: <https://www.nbcsports.com/soccer/news/premier-league-2023-24-standings>
- [5] F. W. Wu, Q. Bian, X. J., H., N. Ding, F. Lu, J. Cheng, and D. Dou, “A survey on video action recognition in sports: Datasets, methods and applications,” *arXiv preprint arXiv:2206.01038*, 2022.
- [6] “Sports technology market size share forecast report 2030,” <https://www.marketsandmarkets.com/Market-Reports/sports-technology-market-104958738.html>, Markets and Markets, Tech. Rep., 2025, [Diakses: 12 Maret 2025].
- [7] “Sports Analytics Strategic Research Report 2024: Global Market to Grow by Over \$15 Billion by 2030 as Capabilities and Innovations Provide New Essential Data,” , 2024, [Diakses: 12 Maret 2025].
- [8] BusinessWire. (2023) Global sports analytics market report 2023: Sector is expected to reach \$12.6 billion by 2030 at a cagr of 28.1% - researchandmarkets.com. [Diakses: 14 Maret 2025]. [Online]. Available: <https://www.businesswire.com/news/home/20230612380321/en/Global-Sports-Analytics-Market-Report-2023-Sector-is-Expected-to-Reach-2412.6-Billion-by-2030-at-a-CAGR-of-28.1--ResearchAndMarkets.com>
- [9] Grand View Research. (2024) Sports analytics market size, share & trends analysis report. [Diakses: 12 Maret 2025]. [Online]. Available: <https://www.grandviewresearch.com/industry-analysis/sports-analytics-market>
- [10] R. Kharel *et al.*, “Long short-term memory networks for time-series prediction in sports,” *Journal of Sports Analytics*, 2024.

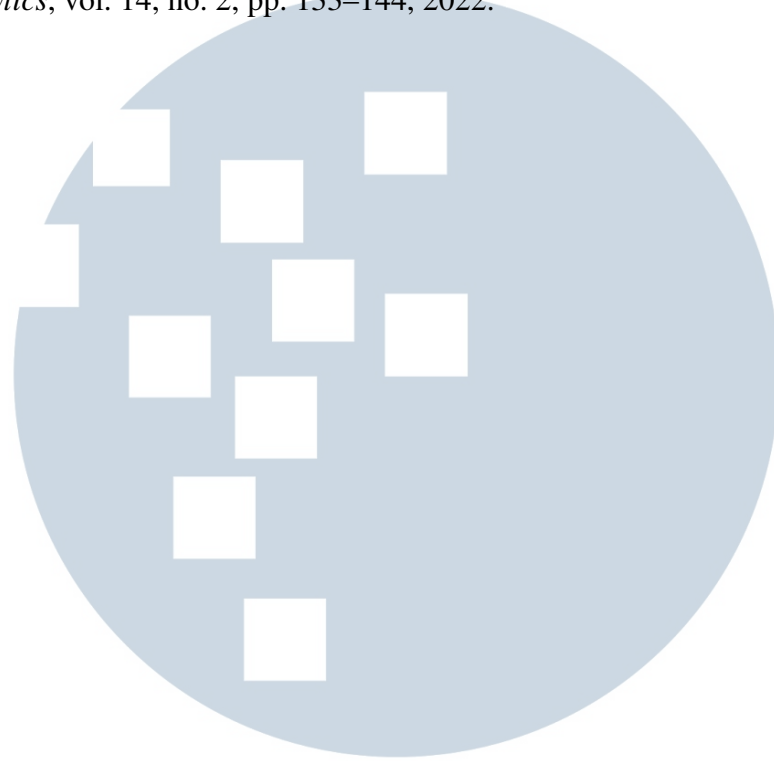
- [11] P. Xenopoulos and C. Silva, "Graph neural networks to predict sports outcomes," *arXiv preprint arXiv:2207.14124*, 2022.
- [12] B. T. Naik, M. F. Hashmi, and N. D. Bokde, "A comprehensive review of computer vision in sports: Open issues, future trends and research directions," *arXiv preprint arXiv:2203.02281*, 2022.
- [13] Deloitte, "Deloitte football money league 2025," Deloitte Sports Business Group, Report, Jan. 2025.
- [14] Premier League Communications / Nielsen Sports, "Premier league global broadcast report 2022/2023 season," Premier League / Nielsen Sports, Report, 2023.
- [15] The Premier League, "Premier league handbook season 2024/25," <https://www.premierleague.com/publications>, 2024, akses handbook resmi dari situs Premier League untuk musim yang paling relevan. URL dan tahun mungkin perlu disesuaikan dengan publikasi terbaru yang tersedia (misalnya, jika 2024/25 belum rilis saat Anda mencari, gunakan 2023/24 dan sesuaikan tahunnya).
- [16] IBM, "AI vs. Machine Learning vs. Deep Learning vs. Neural Networks," Blog post on IBM Think, Jul. 2023, [Diakses: 14 Maret 2025]. [Online]. Available: <https://www.ibm.com/think/topics/ai-vs-machine-learning-vs-deep-learning-vs-neural-networks>
- [17] T. Sembiring, *Pemodelan Pergerakan Harga Emas di Pasar Indonesia Menggunakan Algoritma LSTM*. Tangerang: Universitas Multimedia Nusantara, 2023.
- [18] S. J. Russell and P. Norvig, *Artificial Intelligence: A Modern Approach*, 3rd ed. Upper Saddle River, NJ: Prentice Hall, 2010.
- [19] Microsoft Azure, "What is machine learning?" Microsoft Azure Documentation, 2025, [Diakses: 14 Maret 2025]. [Online]. Available: <https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-machine-learning>
- [20] V. Sankrityayan, "What is Machine Learning?" *Analytics Vidhya Blog*, Jul. 2025. [Online]. Available: <https://www.analyticsvidhya.com/blog/2025/06/machine-learning/>
- [21] Google Cloud, "What is deep learning?" Google Cloud Documentation, 2025, [Diakses: 14 Maret 2025]. [Online]. Available: <https://cloud.google.com/discover/what-is-deep-learning>
- [22] C. McNeley, "Artificial Intelligence or Machine Learning: What's Right for Your Business?" *Forbes Business Council*, Feb. 2025. [Online].

Available: <https://www.forbes.com/councils/forbesbusinesscouncil/2025/02/28/artificial-intelligence-or-machine-learning-whats-right-for-your-business/>

- [23] Y. Birla, S. Somanchi, J. Ghosh, F. Ahmad, F. P. Wilson, Y. Gong, S. G. Coca, F. Doshi-Velez, and G. N. Nadkarni, "State-of-the-art machine learning techniques aiming to improve patient outcomes pertaining to the cardiovascular system," *Frontiers in Cardiovascular Medicine*, vol. 7, p. 29, 2020. [Online]. Available: <https://www.researchgate.net/publication/339337388>
- [24] M. Sundermeyer, R. Schluter, and H. Ney, "LSTM Neural Networks for Language Modeling," in *Proceedings of the 13th Annual Conference of the International Speech Communication Association (Interspeech 2012)*, 2012, pp. 2184–2187.
- [25] R. Pascanu, T. Mikolov, and Y. Bengio, "On the difficulty of training recurrent neural networks," *International Conference on Machine Learning (ICML)*, pp. 1297–1305, 2013.
- [26] J. Schmidhuber, "Deep Learning in neural networks: An overview," *Neural Networks*, vol. 61, pp. 85–117, 2015.
- [27] Y. Wang, Y. Zhang, and S. Gao, "A stock price prediction model based on LSTM recurrent neural network considering the influence of online public opinion," *Journal of Business and Economics*, vol. 8, no. 8, pp. 813–823, 2017.
- [28] J. F. Kolen and J. B. Pollack, "The Gradients of Recurrent Neural Networks," *International Conference on Neural Networks (ICNN)*, vol. 3, pp. 1498–1502, 1994.
- [29] F. A. Gers, J. Schmidhuber, and F. Cummins, "Learning to Forget: Continual Prediction with LSTM," *Neural Computation*, vol. 12, no. 10, pp. 2451–2471, 2000.
- [30] K. Greff, R. K. Srivastava, J. Koutník, B. R. Steunebrink, and J. Schmidhuber, "LSTM: A Search Space Odyssey," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 28, no. 10, pp. 2222–2232, 2017.
- [31] X. Glorot and Y. Bengio, "Understanding the difficulty of training deep feedforward neural networks," *Proceedings of the Thirteenth International Conference on Artificial Intelligence and Statistics (AISTATS)*, pp. 249–256, 2010.
- [32] V. Lebedev, A. Mahendran, A. Vedaldi, K. Lenc, M. B. Blaschko, A. Vedaldi, and K. Lenc, "Are random weights sufficient for training recurrent neural networks?" *International Conference on Learning Representations (ICLR)*, 2012.

- [33] J. Li, M. Wu, and Z. Cao, "Hyperparameter Optimization for LSTM Models," *Journal of Physics: Conference Series*, vol. 1865, no. 3, p. 032014, 2021.
- [34] H. Dhake *et al.*, "Algorithms for hyperparameter tuning of lstms for time series forecasting," *Springer*, 2023. [Online]. Available: https://link.springer.com/chapter/10.1007/978-3-031-21750-0_3
- [35] H. Albishi *et al.*, "Comparative study on hyperparameter optimization for lstm in financial forecasting," *Springer Lecture Notes*, 2024.
- [36] S. Nooraei *et al.*, "Optimizing lstm with dense layers for dynamic time prediction," *ScienceDirect*, 2024.
- [37] Z. Rasheed *et al.*, "Activation functions in deep lstm architectures," *ScienceDirect*, 2022.
- [38] S. Adepu *et al.*, "Comparison of optimizers for cyber-physical system prediction using lstm," *Elsevier*, 2023.
- [39] A. Filatov *et al.*, "Scaling laws for gradient descent in deep lstms," *arXiv preprint arXiv:2410.05838*, 2024.
- [40] M. e. a. Schäfer, "Impact of batch size on lstm training for hydrological forecasting," *Journal of Hydrology*, 2024.
- [41] Y. You *et al.*, "Large batch optimization for deep learning: Training bert in 76 minutes," *arXiv preprint arXiv:1904.00962*, 2019.
- [42] A. Kusuma *et al.*, "Optimasi epoch dan learning rate dalam lstm menggunakan grid dan bayesian search," *Jurnal Teknologi Informasi*, 2025.
- [43] R. Agrawal, "Know the best evaluation metrics for your regression model," *Analytics Vidhya Data Science Blogathon*, Jun. 2025.
- [44] T. O. Hodson, "Root-mean-square error (rmse) or mean absolute error (mae): when to use them or not," *Geoscientific Model Development*, vol. 15, no. 13, pp. 5481–5487, 2022.
- [45] NVIDIA Developer Blog. (2023) A comprehensive overview of regression evaluation metrics. [Diakses: 20 Juli 2025]. [Online]. Available: <https://developer.nvidia.com/blog/a-comprehensive-overview-of-regression-evaluation-metrics/>
- [46] M. Waskom. (2021) Statistics for data science: Understanding spearman correlation. [Diakses: 20 Juli 2025]. [Online]. Available: https://seaborn.pydata.org/examples/scatterplot_matrix.html
- [47] M. G. Kendall, "A new measure of rank correlation: 75th anniversary review," *Journal of Statistical Methods*, vol. 18, no. 3, pp. 101–109, 2021.

- [48] S. Verma and R. Tripathi, “Evaluating rank-based correlation metrics in machine learning applications,” *International Journal of Data Science and Analytics*, vol. 14, no. 2, pp. 133–144, 2022.



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