

DAFTAR PUSTAKA

- [1] G. J. Lee and J. J. Jung, "DNN-based multi-output model for predicting soccer team tactics," *PeerJ Comput. Sci.*, vol. 8, 2022, doi: 10.7717/PEERJ-CS.853.
- [2] E. Pratama, Z. Indra, M. Alby, S. Hsb, and R. Fauzan, "Penerapan Algoritma Brute Force Untuk Optimasi Strategi Tim Permainan Sepak Bola," *JETISH: Journal of Education Technology Information Social Sciences and Health E-ISSN*, 2025.
- [3] R. A. H. Nasution and M. Ikhsan, "Classification of Football Players' Abilities Using The Naïve Baiyes Method," *Indonesian Journal of Artificial Intelligence and Data Mining*, vol. 7, no. 2, p. 510, Aug. 2024, doi: 10.24014/ijaidm.v7i2.31997.
- [4] A. F. Ari Yanto and G. Testiana, "Implementasi Metode Klasifikasi Naïve Bayes Untuk Memprediksi Juara La Liga," *Jurnal Teknologi Sistem Informasi*, vol. 5, no. 2, pp. 128–139, Sep. 2024, doi: 10.35957/jtsi.v5i2.8028.
- [5] L. Ardiantoro, N. Ayunda, J. Ristono, and M. Muslimin, "Analisa Formasi Tim Sepakbola Menggunakan Triangulasi Delaunay & Algoritma Clustering," *Teknologi*, vol. 14, no. 2, pp. 114–123, Dec. 2024, doi: 10.26594/teknologi.v14i2.5108.
- [6] R. Beal, T. J. Norman, and S. D. Ramchurn, "A Critical Comparison of Machine Learning Classifiers to Predict Match Outcomes in the NFL," *Int. J. Comput. Sci. Sport*, vol. 19, no. 2, pp. 36–50, Dec. 2020, doi: 10.2478/ijcss-2020-0009.
- [7] J. Beernaerts, B. De Baets, M. Lenoir, and N. Van de Weghe, "Qualitative Team Formation Analysis in Football: A Case Study of the 2018 FIFA World Cup," *Front. Psychol.*, vol. 13, Jul. 2022, doi: 10.3389/fpsyg.2022.863216.
- [8] M. Murugappan and M. A. Anant, "Football Player Selection Based on Positions and Skills Using Ensemble Machine Learning and Similarity Measure Techniques MSc Research Project Data Analytics."
- [9] A. Guolo Alberto Gobbo, "Master Degree in Computer Science," 2023.
- [10] K. S. Utomo and T. Wiradinata, "Optimal Playing Position Prediction in Football Matches: A Machine Learning Approach," *International Journal of Information Engineering and Electronic Business*, vol. 15, no. 6, pp. 30–47, Dec. 2023, doi: 10.5815/ijieeb.2023.06.03.
- [11] M. A. Al-Asadi and S. Tasdemir, "Empirical comparisons for combining balancing and feature selection strategies for characterizing football players using FIFA video game system," *IEEE Access*, vol. 9, pp. 149266–149286, 2021, doi: 10.1109/ACCESS.2021.3124931.

- [12] B. Orr, E. Pan, and D. J. Lee, "Optimizing Football Formation Analysis via LSTM-Based Event Detection," *Electronics (Switzerland)*, vol. 13, no. 20, Oct. 2024, doi: 10.3390/electronics13204105.
- [13] Y. Sun and H. Chu, "The outcome prediction method of football matches by the quantum neural network based on deep learning," *Sci. Rep.*, vol. 15, no. 1, Dec. 2025, doi: 10.1038/s41598-025-91870-8.
- [14] M. Rico-González, J. Pino-Ortega, A. Méndez, F. M. Clemente, and A. Baca, "Machine learning application in soccer: a systematic review," 2023, *Institute of Sport*. doi: 10.5114/biolsport.2023.112970.
- [15] Y. Ren and T. Susnjak, "Predicting Football Match Outcomes with eXplainable Machine Learning and the Kelly Index," Nov. 2022, [Online]. Available: <http://arxiv.org/abs/2211.15734>
- [16] S. Lang, R. Wild, A. Isenko, and D. Link, "Predicting the in-game status in soccer with machine learning using spatiotemporal player tracking data," *Sci. Rep.*, vol. 12, no. 1, Dec. 2022, doi: 10.1038/s41598-022-19948-1.
- [17] J. H. Hewitt and O. Karakuş, "A machine learning approach for player and position adjusted expected goals in football (soccer)," *Franklin Open*, vol. 4, Sep. 2023, doi: 10.1016/j.fraope.2023.100034.
- [18] K. Bhowmick and V. Sarvaiya, "A COMPARATIVE STUDY OF THE DIFFERENT CLASSIFICATION ALGORITHMS ON FOOTBALL ANALYTICS," *Int. J. Adv. Res. (Indore).*, vol. 9, no. 08, pp. 392–407, Aug. 2021, doi: 10.21474/ijar01/13280.
- [19] A. Rachim, G. * Rumini, and T. Soenyoto, "Journal of *Physical Education and Sport MANAJEMEN KOMPETISI SEPAKBOLA SUMSEL SUPER LEAGUE (SSL) KOTA PALEMBANG Info Artikel*," 2016. [Online]. Available: <http://journal.unnes.ac.id/sju/index.php/jpes>
- [20] Roman. Prysiashniuk, "Set of football team formation and tactics.," Shutterstock. Accessed: Jan. 21, 2026. [Online]. Available: <https://www.shutterstock.com/id/image-vector/football-team-formation-tactics-set-soccer-2479516807?trackingId=fdee4e6e-ae87-4335-b27f-72c959d527a2&listId=searchResults>
- [21] J. Han, M. Kamber, and J. Pei, "Data Mining. Concepts and Techniques, 3rd Edition (The Morgan Kaufmann Series in Data Management Systems)," 2011.
- [22] A. Roihan, P. Abas Sunarya, and A. S. Rafika, "IJCIT (Indonesian Journal on Computer and Information Technology) Pemanfaatan Machine Learning dalam Berbagai Bidang: Review paper," 2019.

- [23] D. P. Yani, S. K. Gusti, F. Yanto, and M. Affandes, "Klasifikasi Sentimen Transformasi dan Reformasi Sepak Bola Indonesia Pada Twitter Menggunakan Algoritma Bernoulli Naïve Bayes," *Jurnal Sistem Komputer dan Informatika (JSON)*, vol. 4, no. 3, p. 451, Mar. 2023, doi: 10.30865/json.v4i3.5829.
- [24] "Rapid Application Development Model (RAD) - Software Engineering," *geeksforgeeks*.
- [25] D. Kurniadi and A. Mulyani, "Implementasi Pengembangan Student Information Terminal (S-IT) Untuk Pelayanan Akademik Mahasiswa," *Jurnal Algoritma*, vol. 13, no. 2, pp. 437–442, Feb. 2017, doi: 10.33364/algoritma/v.13-2.437.
- [26] Y. Astuti, H. K. Pradana, D. A. Istiqomah, S. Supriatin, and N. T. Hartati, "Twitter Sentiment Analysis Classification to Assess Public Opinion on Football Matches Using the Naïve Bayes Method," *Journal of Intelligent Software Systems*, vol. 2, no. 2, p. 11, Dec. 2023, doi: 10.26798/jiss.v2i2.1136.
- [27] Shiksha, "KDD in Data Mining: Process, Steps, and Applications."
- [28] A. Fahlevi, "Proses Data Mining KDD." Accessed: Aug. 04, 2025. [Online]. Available: <https://sis.binus.ac.id/2021/09/30/proses-data-mining-kdd/>
- [29] C. Savoia *et al.*, "The Relationship Between Playing Formations, Team Ranking, and *Physical* Performance in the Serie A Soccer League," *Sports*, vol. 12, no. 11, Nov. 2024, doi: 10.3390/sports12110286.
- [30] T. Narizuka and Y. Yamazaki, "Clustering algorithm for formations in football games," *Sci. Rep.*, vol. 9, no. 1, Dec. 2019, doi: 10.1038/s41598-019-48623-1.