

DAFTAR PUSTAKA

- Anzer, G., & Bauer, P. (2021). A goal scoring probability model for shots based on synchronized positional and event data in football (soccer). *Frontiers in Sports and Active Living*, 3, 624475.
- Cavus, M., & Biecek, P. (2022). Explainable expected goal models for performance analysis in football analytics. 2022 IEEE 9th International Conference on Data Science and Advanced Analytics (DSAA), 1–9. doi:10.1109/DSAA54385.2022.10032440
- Davis, J., & Robberechts, P. (2024). Biases in expected goals models confound finishing ability. *arXiv preprint arXiv:2401.09940*.
- Decroos, T., & Davis, J. (2019). Interpretable prediction of goals in soccer. In *Proceedings of the AAAI-20 workshop on artificial intelligence in team sports*.
- Eggels, H., Van Elk, R., & Pechenizkiy, M. (2016). Explaining soccer match outcomes with goal scoring opportunities predictive analytics. *3rd Workshop on Machine Learning and Data Mining for Sports Analytics (MLSA 2016)*. CEUR-WS.org
- ElHabr, T. (2023). *xG model calibration*. Tony ElHabr – Tony’s Blog. Retrieved May 11, 2025, from <https://tonyelhabr.rbind.io/posts/opta-xg-model-calibration/>
- Malikov, D., & Kim, J. (2024). Beyond xG: A Dual Prediction Model for Analyzing Player Performance Through Expected and Actual Goals in European Soccer Leagues. *Applied Sciences*, 14(22), 10390.
- Méndez, M., Montero, C., & Núñez, M. (2023). Improving the expected goal value in football using multilayer perceptron networks. *Asian Conference on Intelligent Information and Database Systems* (pp. 352-363). Cham: Springer Nature Switzerland.

- Mead J, O'Hare A, McMenemy P (2023) Expected goals in football: Improving model performance and demonstrating value. PLOS ONE 18(4): e0282295. <https://doi.org/10.1371/journal.pone.0282295>
- Mohammed, M. A., Kadhem, S. M., & Maisa'a, A. A. (2021). Insider attacker detection using light gradient boosting machine. *Tech-Knowledge*, 1(1), 67-76.
- Scholtes, A., & Karakuş, O. (2024). Bayes-xG: player and position correction on expected goals (xG) using Bayesian hierarchical approach. *Frontiers in sports and active living*, 6, 1348983. <https://doi.org/10.3389/fspor.2024.1348983>
- Ke, G., Meng, Q., Finley, T., Wang, T., Chen, W., Ma, W., ... & Liu, T. Y. (2017). Lightgbm: A highly efficient gradient boosting decision tree. *Advances in neural information processing systems*, 30.
- Ramos, S., Soares, J., Cembranel, S. S., Tavares, I., Foroozandeh, Z., Vale, Z., & Fernandes, R. (2021). Data mining techniques for electricity customer characterization. *Procedia Computer Science*, 186(3), 475–488. <https://doi.org/10.1016/j.procs.2021.04.168>