

## DAFTAR PUSTAKA

- Ali, A., Shamsuddin, S.M., & Ralescu, A.L. (2015). Classification with class imbalance problem: A review. *Soft Computing Models in Industrial and Environmental Applications*, 7(3), 176-204.
- Aryal S., & Paudel B. (2020). Supervised Classification using Gradient Boosting Machine: Wisconsin Breast Cancer Dataset. *International Journal of Scientific Research & Engineering Trends*, 6(3), 1887–1892.
- Brown, I., & Mues, C., (2011). An Experimental Comparison of Classification Algorithms for Imbalanced Credit. *Expert Systems with Applications*, 39(3), 3446–3453.
- Chawla, N. V., Bowyer, K. W., Hall, L. O., & Kegelmeyer, W. P. (2002). SMOTE: Synthetic Minority Over-sampling Technique. *Journal of Artificial Intelligence Research*, 16, 321-357. <https://doi.org/10.1613/jair.953>
- Daoud, E.A. (2019). Comparison between XGBoost, LightGBM and CatBoost Using a Home Credit Dataset. *International Journal of Computer and International Engineering*, 13(1), 6-10.
- Elgeldawi, E., Sayed, A., Galal, A. R., & Zaki, A. M. (2021). Hyperparameter tuning for machine learning algorithms used for arabic sentiment analysis. *Informatics*, 8(4), 1-21. <https://doi.org/10.3390/informatics8040079>
- Friedman, J. H. (2001). Greedy function approximation: A gradient boosting machine. *The Annals of Statistics*, 29(5), 1189-1232. <https://doi.org/10.1214/aos/1013203451>
- Gorunescu, F. (2011). *Data Mining: Concepts, Models, and Techniques* (Prof. J. Kacprzyk & Prof. L. C. Jain, Eds.; 1st ed., Vol. 12). Springer. Berlin.
- Ghawi, R., & Pfeffer, J. (2019). Efficient Hyperparameter Tuning with Grid Search for Text Categorization using kNN Approach with BM25 Similarity. *Open Computer Science*, 9(1), 160–180. <https://doi.org/10.1515/comp-2019-0011>.
- Han J., Kamber M., & Pei J. (2011). *Data mining: concepts and techniques*. New York: Elsevier.

- Jian C., Gao J., & Ao Y. (2016). A New Sampling Method for Classifying Imbalanced Data Based on Support Vector Machine Ensemble. *Neurocomputing*, 193, 115-122. <https://doi.org/10.1016/j.neucom.2016.02.006>
- Jha, A., Dave, M., & Madan, S. (2019). Comparison of Binary Class and Multi-Class Classifier Using Different Data Mining Classification Techniques. *International Conference on Advancements in Computing & Management*, pp. 894-903. <https://doi.org/10.2139/ssrn.3464211>
- Li, Y., & Chen, W. (2020). A comparative performance assessment of ensemble learning for credit scoring. *Mathematics*, 8(10), 1–19. <https://doi.org/10.3390/math8101756>
- Lin, T. Y., Goyal, P., Girshick, R., He, K., & Dollár, P. (2017). Focal Loss for Dense Object Detection. *IEEE International Conference on Computer Vision (ICCV)*, pp. 2999-3007.
- Liu, W., Fan, H., Xia, M., & Xia, M. (2022). A focal-aware cost-sensitive boosted tree for imbalanced credit scoring. *Expert Systems with Applications*, 208, 1-19. <https://doi.org/10.1016/j.eswa.2022.118158>
- Mohammed, M., Khan, M.B., & Bashier, E.B.M. (2016). *Machine Learning: Algorithms and Applications (1st ed.)*. CRC Press. Boca Raton. <https://doi.org/10.1201/9781315371658>
- Nugraha, W., & Syarif, M. (2023). Teknik Weighting untuk Mengatasi Ketidakseimbangan Kelas Pada Prediksi Churn Menggunakan XGBoost, LightGBM, dan CatBoost. *Techno.Com*, 22(1), 97-108. <https://doi.org/10.33633/tc.v22i1.7191>
- Qiong, G., Wang, X., Zhao, W., Bing, N., & Xin, C. (2016). An Improved SMOTE Algorithm Based on Genetic Algorithm for Imbalanced Data Classification. *Journal of Digital Information Management*, 14(2), 92-103.
- Rachmadi,R.R., Sudarsono, A., & Santoso,T., B. (2021). Application of LightGBM Method for Abnormal Driving Behavior Classification on Motorcycle Driver Based on Smartphone Sensor. *Jurnal Komputer Terapan*, 7(2), 218-227. doi:10.35143/jkt.v7i2.5164.

- Ratnasari, A.P., & Nuraini, R. (2024). Performance of Random Oversampling, Random Undersampling, and SMOTE-NC Methods in Handling Imbalanced Class in Classification Models, *International Journal of Scientific Research in Management*, 12(04), 494–501, doi: 10.18535/ijssrm/v12i04.m03.
- Rufo, D. D., Debelee, T. G., Ibenthal, A., Negera, W. G. (2021). Diagnosis of Diabetes Mellitus Using Gradient Boosting Machine (LightGBM). *Diagnostics (Basel, Switzerland)*, 11(9), 1714. doi: 10.3390/diagnostics11091714.
- Santos, M. S., Soares, J. P., Abreu, P.H., Araujo, H., & Santos, J. (2018). Cross-validation for imbalanced datasets: avoiding overoptimistic and overfitting approaches [research frontier]. *IEEE Computational Intelligence Magazine*, 13(4), 59–76. <https://doi.org/10.1109/MCI.2018.2866730>
- Spiegel, M. R., & Wrede, R. (1992). *Schaum's advanced calculus* (2nd ed.). McGraw-Hill. New York.
- Tao, X., Li, Q., Guo, W., Ren, C., Li, C., Liu, R., & Zou, J. (2019). Self-adaptive cost weights-based support vector machine cost-sensitive ensemble for imbalanced data classification. *Information Sciences*, 487, 31–56. <https://doi.org/10.1016/j.ins.2019.02.062>
- Tyagi, S., & Mittal, S. (2020). Sampling Approaches for Imbalanced Data Classification Problem in Machine Learning. In: Singh, P., Kar, A., Singh, Y., Kolekar, M., Tanwar, S. (eds), *Proceedings of ICRIC 2019 . Lecture Notes in Electrical Engineering*, 597. Springer, Cham. <https://doi.org/10.1007/978-3-030-29407-617>
- Varberg, D. E., Purcell, E. J., & Rigdon, S. E. (2007). *Calculus* (9th ed.). Pearson.
- Wazid, M., Das, A. K., Chamola, V., & Park, Y. (2022). Uniting cyber security and machine learning: Advantages, challenges and future research. *In ICT Express*, 8(3), 313–321. <https://doi.org/10.1016/j.icte.2022.04.007>
- Yang, H., Chen, Z., Yang, H., & Tian, M. (2023). Predicting Coronary Heart Disease Using an Improved LightGBM Model: Performance Analysis and Comparison. *IEEE Access*, 11, 23366–23380. <https://doi.org/10.1109/ACCESS.2023.3253885>
- Yang, Y., Lv, H. & Chen, N. (2023). A Survey on ensemble learning under the era of deep learning. *Artif Intell Rev*, 56, 5545–5589. <https://doi.org/10.1007/s10462-022-10283-5>