

DAFTAR PUSTAKA

- [1] R. Kemenkes, “Laporan nasional riskesdas 2018,” *Jakarta: Kemenkes RI*, pp. 154–66, 2018.
- [2] W. H. Organization. (2020) Cardiovascular diseases (cvds). [Online]. Available: [https://www.who.int/en/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/en/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds))
- [3] I. Muhammad, J. Jondri, and U. Wisesty, “Klasifikasi sinyal ecg menggunakan deep learning dengan stacked denoising autoencoders,” *eProceedings of Engineering*, vol. 4, no. 3, 2017.
- [4] P. Reinelt, G. Karth, A. Geppert, and G. Heinz, “Incidence and type of cardiac arrhythmias in critically ill patients: a single center experience in a medical-cardiological icu,” *Intensive care medicine*, vol. 27, no. 9, pp. 1466–1473, 2001.
- [5] P. Warrick and M. N. Homsi, “Cardiac arrhythmia detection from ecg combining convolutional and long short-term memory networks,” in *2017 Computing in Cardiology (CinC)*. IEEE, 2017, pp. 1–4.
- [6] Wikipedia. (2020) Electrocardiography. [Online]. Available: <https://en.wikipedia.org/wiki/Electrocardiography>
- [7] N. J. Nilsson, *The quest for artificial intelligence*. Cambridge University Press, 2009.
- [8] A. Géron, *Hands-on machine learning with Scikit-Learn, Keras, and TensorFlow: Concepts, tools, and techniques to build intelligent systems*. O'Reilly Media, 2019.

- [9] E. Ameisen, *Building Machine Learning Powered Applications.* O'Reilly Media, 2020.
- [10] Z. Ebrahimi, M. Loni, M. Daneshtalab, and A. Gharehboghi, “A review on deep learning methods for ecg arrhythmia classification,” *Expert Systems with Applications: X*, p. 100033, 2020.
- [11] M. Moocarme and M. Abdolahnejad, *The Deep Learning with Keras Work-shop.* Packt Publishing, 2020.
- [12] S. Weidman, *Deep Learning from Scratch: Building with Python from First Principles.* O'Reilly Media, 2019.
- [13] Y. H. Liu and S. Mehta, *Hands-On Deep Learning Architectures with Python.* Packt Publishing, 2019.
- [14] F. Murat, O. Yildirim, M. Talo, U. B. Baloglu, Y. Demir, and U. R. Acharya, “Application of deep learning techniques for heartbeats detection using ecg signals-analysis and review,” *Computers in biology and medicine*, p. 103726, 2020.
- [15] T. Chen, T. He, M. Benesty, V. Khotilovich, and Y. Tang, “Xgboost: extreme gradient boosting,” *R package version 0.4-2*, pp. 1–4, 2015.
- [16] T. Chen and C. Guestrin, “Xgboost: A scalable tree boosting system,” in *Proceedings of the 22nd acm sigkdd international conference on knowledge discovery and data mining*, 2016, pp. 785–794.
- [17] W. Wang, G. Chakraborty, and B. Chakraborty, “Predicting the risk of chronic kidney disease (ckd) using machine learning algorithm,” *Applied Sciences*, vol. 11, no. 1, p. 202, 2021.

- [18] M. Vakili, M. Ghamsari, and M. Rezaei, “Performance analysis and comparison of machine and deep learning algorithms for iot data classification,” *arXiv preprint arXiv:2001.09636*, 2020.
- [19] S. Ruuska, W. Hämäläinen, S. Kajava, M. Mughal, P. Matilainen, and J. Mononen, “Evaluation of the confusion matrix method in the validation of an automated system for measuring feeding behaviour of cattle,” *Behavioural processes*, vol. 148, pp. 56–62, 2018.
- [20] Y. Yanto, “Analisis qos (quality of service) pada jaringan internet (studi kasus: Fakultas teknik universitas tanjungpura),” *JUSTIN (Jurnal Sistem dan Teknologi Informasi)*, vol. 1, no. 1, pp. 11–16.
- [21] G. B. Moody and R. G. Mark, “The impact of the mit-bih arrhythmia database,” *IEEE Engineering in Medicine and Biology Magazine*, vol. 20, no. 3, pp. 45–50, 2001.
- [22] M. Kachuee, S. Fazeli, and M. Sarrafzadeh, “Ecg heartbeat classification: A deep transferable representation,” in *2018 IEEE International Conference on Healthcare Informatics (ICHI)*. IEEE, 2018, pp. 443–444.
- [23] M. S. Shelke, P. R. Deshmukh, and V. K. Shandilya, “A review on imbalanced data handling using undersampling and oversampling technique,” *International Journal of Recent Trends in Engineering and Research*, vol. 3, no. 4, pp. 444–449, 2017.
- [24] N. Junsomboon and T. Phienthrakul, “Combining over-sampling and under-sampling techniques for imbalance dataset,” in *Proceedings of the 9th International Conference on Machine Learning and Computing*, 2017, pp. 243–247.
- [25] M. Hossin and S. M.N, “A review on evaluation metrics for data classification evaluations,” *International Journal of Data Mining and Knowledge Management Process*, vol. 5, pp. 01–11, 03 2015.

- [26] E. Gordon-Rodriguez, G. Loaiza-Ganem, G. Pleiss, and J. P. Cunningham, “Uses and abuses of the cross-entropy loss: case studies in modern deep learning,” 2020.
- [27] R. Zhang, B. Li, and B. Jiao, “Application of xgboost algorithm in bearing fault diagnosis,” in *IOP Conference Series: Materials Science and Engineering*, vol. 490, no. 7. IOP Publishing, 2019, p. 072062.
- [28] Z. Zhang and M. R. Sabuncu, “Generalized cross entropy loss for training deep neural networks with noisy labels,” in *32nd Conference on Neural Information Processing Systems (NeurIPS)*, 2018.
- [29] V. Vovk, “The fundamental nature of the log loss function,” in *Fields of Logic and Computation II*. Springer, 2015, pp. 307–318.
- [30] B. Juba and H. S. Le, “Precision-recall versus accuracy and the role of large data sets,” in *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 33, no. 01, 2019, pp. 4039–4048.
- [31] Z. C. Lipton, C. Elkan, and B. Narayanaswamy, “Thresholding classifiers to maximize f1 score,” 2014.
- [32] M. Huda, “Ta: Analisis karakteristik lalu lintas data internet: Aplikasi web social network,” Ph.D. dissertation, Institut Bisnis dan Informatika Stikom Surabaya, 2015.