

DAFTAR PUSTAKA

- [1] A. Homaidi, Z. Fatah *et al.*, “Implementasi metode k-nearest neighbors (knn) untuk klasifikasi penyakit jantung,” *G-Tech: Jurnal Teknologi Terapan*, vol. 8, no. 3, pp. 1720–1728, 2024.
- [2] F. Novitasari, “Sistem klasifikasi penyakit jantung menggunakan teknik pendekatan smote pada algoritma modified k-nearest neighbor,” *Jurnal Building of Informatics, Technology and Science (BITS)*, vol. 5, no. 1, pp. 274–284, 2023.
- [3] M. Faizal, R. B. Anggraini *et al.*, “Faktor-faktor yang berhubungan dengan kejadian penyakit jantung koroner (pjk) di rsud dr.(hc) ir. soekarno provinsi bangka belitung tahun 2022,” *Jurnal Keperawatan*, vol. 12, no. 1, pp. 17–25, 2023.
- [4] L. Hakim, A. Sobri, L. Sunardi, and D. Nurdiansyah, “Prediksi penyakit jantung berbasis mesin learning dengan menggunakan metode k-nn,” *Jurnal Digital Teknologi Informasi*, vol. 7, no. 2, pp. 14–20, 2025.
- [5] A. Saboor, M. Usman, S. Ali, A. Samad, M. F. Abrar, and N. Ullah, “A method for improving prediction of human heart disease using machine learning algorithms,” *Mobile Information Systems*, vol. 2022, no. 1, p. 1410169, 2022.
- [6] Z. M. E. Darmawan and A. F. Dianta, “Implementasi optimasi hyperparameter gridsearchcv pada sistem prediksi serangan jantung menggunakan svm,” *Teknologi: Jurnal Ilmiah Sistem Informasi*, vol. 13, no. 1, pp. 8–15, 2023.
- [7] M. Ahmed and I. Husien, “Heart disease prediction using hybrid machine learning: A brief review,” *Journal of Robotics and Control (JRC)*, vol. 5, no. 3, pp. 884–892, 2024.
- [8] A. Nurmasani and Y. Pristyanto, “Algoritme stacking untuk klasifikasi penyakit jantung pada dataset imbalanced class,” *Pseudocode*, vol. 8, no. 1, pp. 21–26, 2021.
- [9] A. M. A. Rahim, I. Y. R. Pratiwi, and M. A. Fikri, “Klasifikasi penyakit jantung menggunakan metode synthetic minority over-sampling technique dan random forest classifier,” *The Indonesian Journal of Computer Science*, vol. 12, no. 5, 2023.
- [10] J. J. Pangaribuan, H. Tanjaya, and K. Kenichi, “Mendeteksi penyakit jantung menggunakan machine learning dengan algoritma logistic regression,” *Journal Information System Development (ISD)*, vol. 6, no. 2, pp. 1–10, 2021.
- [11] S. A. T. Al Azhima, D. Darmawan, N. F. A. Hakim, I. Kustiawan, M. Al Qibtiya, and N. S. Syafei, “Hybrid machine learning model untuk

memprediksi penyakit jantung dengan metode logistic regression dan random forest,” *Jurnal Teknologi Terpadu*, vol. 8, no. 1, pp. 40–46, 2022.

- [12] R. Hidayat, Y. S. Sy, T. Sujana, M. Husnah, H. T. Saputra, and F. Okmayura, “Implementasi machine learning untuk prediksi penyakit jantung menggunakan algoritma support vector machine,” *BIOS: Jurnal Teknologi Informasi dan Rekayasa Komputer*, vol. 5, no. 2, pp. 161–168, 2024.
- [13] E. Elsedimy, S. M. AboHashish, and F. Algarni, “New cardiovascular disease prediction approach using support vector machine and quantum-behaved particle swarm optimization,” *Multimedia Tools and Applications*, vol. 83, no. 8, pp. 23 901–23 928, 2024.
- [14] A. Akella and S. Akella, “Machine learning algorithms for predicting coronary artery disease: efforts toward an open source solution,” *Future science OA*, vol. 7, no. 6, p. FSO698, 2021.
- [15] C. B. C. Latha and S. C. Jeeva, “Improving the accuracy of prediction of heart disease risk based on ensemble classification techniques,” *Informatics in Medicine Unlocked*, vol. 16, p. 100203, 2019, [Diakses: 15 April 2025]. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S235291481830217X>
- [16] N. F. Zulkiflee and M. S. Rusiman, “Heart disease prediction using logistic regression,” *Enhanced Knowledge in Sciences and Technology*, vol. 1, no. 2, pp. 177–184, 2021.
- [17] T. A. Assegie, “Heart disease prediction model with k-nearest neighbor algorithm,” *International Journal of Informatics and Communication Technology (IJ-ICT)*, vol. 10, no. 3, p. 225, 2021.
- [18] A. K. Faieq and M. M. Mijwil, “Prediction of heart diseases utilising support vector machine and artificial neural network,” *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 26, no. 1, pp. 374–380, 2022.
- [19] A. S. Nugroho, “Pengantar support vector machine,” *J. Data Mining, Jakarta*, p. 3, 2007.
- [20] A. Putranto, N. L. Azizah, and I. R. I. Astutik, “Sistem prediksi penyakit jantung berbasis web menggunakan metode svm dan framework streamlit,” *Kesatria: Jurnal Penerapan Sistem Informasi (Komputer dan Manajemen)*, vol. 4, no. 2, pp. 442–452, 2023.
- [21] D. A. Pisner and D. M. Schnyer, “Support vector machine,” in *Machine learning*. Elsevier, 2020, pp. 101–121.
- [22] H. El Hamdaoui, S. Boujraf, N. E. H. Chaoui, B. Alami, and M. Maaroufi, “Improving heart disease prediction using random forest and adaboost algorithms,” *iJOE*, vol. 17, no. 11, p. 61, 2021.

- [23] W. N. Santosa and B. Baharuddin, "Penyakit jantung koroner dan antioksidan," *KELUWIH: Jurnal Kesehatan Dan Kedokteran*, vol. 1, no. 2, pp. 95–100, 2020.
- [24] C. Krittanawong, H. U. H. Virk, S. Bangalore, Z. Wang, K. W. Johnson, R. Pinotti, H. Zhang, S. Kaplin, B. Narasimhan, T. Kitai *et al.*, "Machine learning prediction in cardiovascular diseases: a meta-analysis," *Scientific reports*, vol. 10, no. 1, p. 16057, 2020.
- [25] V. Nasteski, "An overview of the supervised machine learning methods," *Horizons. b*, vol. 4, no. 51-62, p. 56, 2017.
- [26] R. Sharma, K. Sharma, and A. Khanna, "Study of supervised learning and unsupervised learning," *International Journal for Research in Applied Science and Engineering Technology*, vol. 8, no. 6, pp. 588–593, 2020.
- [27] K. Sindhu Meena and S. Suriya, "A survey on supervised and unsupervised learning techniques," in *Proceedings of international conference on artificial intelligence, smart grid and smart city applications: AISGSC 2019*. Springer, 2020, pp. 627–644.
- [28] B. Liu, "Supervised learning," in *Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data*. Springer, 2011, pp. 63–132.
- [29] H. Vinutha, B. Poornima, and B. Sagar, "Detection of outliers using interquartile range technique from intrusion dataset," in *Information and decision sciences: Proceedings of the 6th international conference on ficta*. Springer, 2018, pp. 511–518.
- [30] N. V. Chawla, K. W. Bowyer, L. O. Hall, and W. P. Kegelmeyer, "Smote: synthetic minority over-sampling technique," *Journal of artificial intelligence research*, vol. 16, pp. 321–357, 2002.
- [31] D. Berrar *et al.*, "Cross-validation." 2019.
- [32] V. Sharma, S. Yadav, and M. Gupta, "Heart disease prediction using machine learning techniques," in *2020 2nd international conference on advances in computing, communication control and networking (ICACCCN)*. IEEE, 2020, pp. 177–181.
- [33] R. Ahmed, M. Bibi, and S. Syed, "Improving heart disease prediction accuracy using a hybrid machine learning approach: A comparative study of svm and knn algorithms," *International Journal of Computations, Information and Manufacturing (IJCIM)*, vol. 3, no. 1, pp. 49–54, 2023.
- [34] A. Patle and D. S. Chouhan, "Svm kernel functions for classification," in *2013 International conference on advances in technology and engineering (ICATE)*. IEEE, 2013, pp. 1–9.

- [35] D. Valero-Carreras, J. Alcaraz, and M. Landete, “Comparing two svm models through different metrics based on the confusion matrix,” *Computers & Operations Research*, vol. 152, p. 106131, 2023.
- [36] H. Yang, Z. Chen, H. Yang, and M. Tian, “Predicting coronary heart disease using an improved lightgbm model: Performance analysis and comparison,” *IEEE Access*, vol. 11, pp. 23 366–23 380, 2023.

