

DAFTAR PUSTAKA

- [1] “Cardiovascular diseases (cvds),” 6 2021, accessed on November 22, 2024. [Online]. Available: [https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds))
- [2] “The top 10 causes of death,” 8 2024, accessed on November 22, 2024. [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/the-top-10-causes-of-death>
- [3] Saelan, K. Ardian, S. Malak, and N. Kholis, “<https://www.who.int/news-room/fact-sheets/detail/the-top-10-causes-of-death>,” *Jurnal Implementa Husada*, vol. 1, 8 2020, accessed on November 22, 2024. [Online]. Available: https://jurnal.umsu.ac.id/index.php/JIH/article/view/4662/pdf_7
- [4] A. N. Iskandar, “Pengaruh latihan fisik terhadap kesehatan jantung: Sebuah tinjauan literatur,” *Jurnal Edukasimu*, vol. 3, 2023, accessed on November 22, 2024.
- [5] W. N. Santosa and Baharuddin, “Penyakit jantung koroner dan antioksidan,” *Jurnal Kesehatan dan Kedokteran*, vol. 1, 6 2020, accessed on November 22, 2024. [Online]. Available: <https://journal.ubaya.ac.id/index.php/kesdok/article/view/2566/2195>
- [6] R. Yilmaz and F. H. Yağın, “Early detection of coronary heart disease based on machine learning methods,” *MEDICAL RECORDS-International Medical Journal*, vol. 4, pp. 1–6, 2022, accessed on November 22, 2024.
- [7] W. Fauziah, N. Fauziyah, Minanton, H. S. Agustina, S. Rahayu, N. M. Adiutama, F. Handayani, and S. S. Yanti, “Pemeriksaan kesehatan jantung dalam rangka pengembangan aplikasi screening jantung berbasis android,” *Jurnal BUDIMAS*, vol. 6, 2024, accessed on November 22, 2024. [Online]. Available: <https://jurnal.stie-aas.ac.id/index.php/JAIM/article/view/15287/5931>
- [8] C. Bemando, E. Miranda, and M. Aryuni, “Machine-learning-based prediction models of coronary heart disease using naïve bayes and random forest algorithms,” *2021 International Conference on Software Engineering & Computer Systems and 4th International Conference on Computational Science and Information Management (ICSECS-ICOCSIM)*, pp. 232–237, 2021, accessed on February 19, 2025. [Online]. Available: <https://ieeexplore.ieee.org/abstract/document/9537060/references#references>
- [9] N. H. Alfajr and S. Defiyanti, “Prediksi penyakit jantung menggunakan metode random forest dan penerapan principal component analysis (pca),” *JITET (Jurnal Informatika dan Teknik Elektro Terapan)*, vol. 12, 2024, accessed on May 27, 2025.

- [10] A. P. Y. M. Agung Rachmat Raharja, Jayadi, “Penerapan algoritma decision tree dalam klasifikasi data “framingham” untuk menunjukkan risiko seseorang terkena penyakit jantung dalam 10 tahun mendatang,” *Technologia Journal*, vol. 1, no. 1, Feb. 2024, accessed on May 1, 2025. [Online]. Available: <https://nawalaeducation.com/index.php/TJ/article/view/42>
- [11] A. Riany and G. Testiana, “Penerapan data mining untuk klasifikasi penyakit jantung koroner menggunakan algoritma naïve bayes,” *MDP Student Conference*, vol. 2, pp. 297–305, 04 2023, accessed on June 1, 2025.
- [12] R. Valarmathi and T. Sheela, “Heart disease prediction using hyper parameter optimization (hpo) tuning,” *Biomedical Signal Processing and Control*, vol. 70, p. 103033, 2021, accessed on May 28, 2025. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1746809421006303>
- [13] M. Waqar, H. Dawood, H. Dawood, N. Majeed, A. Banjar, and R. Alharbey, “An efficient smote-based deep learning model for heart attack prediction,” *Scientific Programming*, vol. 2021, pp. 1–12, 03 2021, accessed on May 28, 2025.
- [14] A. Rahman, Y. Alsenani, A. Zafar, K. Ullah, K. Rabie, and T. Shongwe, “Enhancing heart disease prediction using a self-attention-based transformer model,” *Scientific Reports*, vol. 14, 01 2024, accessed on May 28, 2025.
- [15] J. P. Pane, L. Simorangkir, and P. I. S. B. Saragih, “Faktor-faktor risiko penyakit kardiovaskularberbasis masyarakat,” *Jurnal Penelitian Perawat Profesional*, vol. 4, 11 2022, accessed on December 9, 2024. [Online]. Available: <https://jurnal.globalhealthsciencegroup.com/index.php/JPPP/article/view/1218/940>
- [16] I. Rosidawati and H. Ariyan, “Gambaran tingkat risiko penyakit kardiovaskular berdasarkan skor kardiovaskular jakarta,” *HEALTHCARE NURSING JOURNAL*, vol. 4, pp. 252–257, 2022, accessed on December 9, 2024. [Online]. Available: <https://journal.umtas.ac.id/index.php/healthcare/article/view/1852/884>
- [17] M. K. Davranovna, K. M. Alisherovna, K. Z. Erkinovna, and K. S. Nizamitdinovich, “Assessment of the quality of life ofpatients with coronary heart disease,” *The Peerian Journal*, vol. 11, 10 2022, accessed on December 9, 2024. [Online]. Available: <https://peerianjournal.com/index.php/tpj/article/view/322/276>
- [18] L. F. Tampubolon, A. Ginting, and F. E. S. Turnip, “Gambaran faktor yang mempengaruhi kejadian penyakit jantung koroner (pjk) di pusat jantung terpadu (pjt),” *Jurnal Ilmiah Permas: Jurnal Ilmiah STIKES Kenda*, vol. 13, 7 2023, accessed on December 9, 2024. [Online]. Available: <https://journal2.stikeskendal.ac.id/index.php/PSKM/>

- [19] H. A. Salman, A. Kalakech, and A. Steiti, “Random forest algorithm overview,” *Babylonian Journal of Machine Learning*, pp. 69–79, 2024, accessed on December 9, 2024. [Online]. Available: <https://mesopotamian.press/journals/index.php/BJML>
- [20] M. I. Prasetiyowati, N. U. Maulidevi, and K. Surendro, “Feature selection to increase the random forest method performance on high dimensional data,” *International Journal of Advances in Intelligent Informatics*, vol. 6, pp. 303–312, 11 2020, accessed on February 19, 2025. [Online]. Available: https://ijain.org/index.php/IJAIN/article/view/471/ijain_v6i3_p303-312
- [21] T. Zhu, “Analysis on the applicability of the random forest,” *Journal of Physics: Conference Series*, 2020, accessed on December 9, 2024. [Online]. Available: <https://iopscience.iop.org/article/10.1088/1742-6596/1607/1/012123/pdf>
- [22] S. Yang and G. Berdine, “Confusion matrix,” *The Southwest Respiratory and Critical Care Chronicles*, vol. 12, no. 53, pp. 75–79, Oct. 2024, accessed on December 19, 2024. [Online]. Available: <https://pulmonarychronicles.com/index.php/pulmonarychronicles/article/view/1391>
- [23] G. A. Pradipta, R. Wardoyo, A. Musdholifah, I. N. H. Sanjaya, and M. Ismail, “Smote for handling imbalanced data problem : A review,” in *2021 Sixth International Conference on Informatics and Computing (ICIC)*, 2021, pp. 1–8, accessed on May 28, 2025.
- [24] N. Subaşı, “Comprehensive analysis of grid and randomized search on dataset performance,” *European Journal of Engineering and Applied Sciences*, vol. 7, no. 2, pp. 77–83, 2024, accessed on June 30, 2025.
- [25] N. A. Pramudhyta and M. S. Rohman, “Perbandingan optimasi metode grid search dan random search dalam algoritma xgboost untuk klasifikasi stunting,” *Jurnal Media Informatika Budidarma*, vol. 8, no. 1, pp. 19–29, 2024, accessed on June 30, 2025. [Online]. Available: <https://ejurnal.stmik-budidarma.ac.id/index.php/mib/article/view/6965>
- [26] H. Li, G. K. Rajbahadur, D. Lin, C.-P. Bezemer, and Z. Jiang, “Keeping deep learning models in check: A history-based approach to mitigate overfitting,” *IEEE Access*, vol. PP, pp. 1–1, 01 2024, accessed on July 16, 2025.
- [27] R. Oktafiani, A. Hermawan, and D. Avianto, “Max depth impact on heart disease classification: Decision tree and random forest,” *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, vol. 8, no. 1, pp. 160 – 168, Feb. 2024, accessed on May 27, 2025. [Online]. Available: <https://jurnal.iaii.or.id/index.php/RESTI/article/view/5574>

- [28] S. Mishra, “A comparative study for time-to-event analysis and survival prediction for heart failure condition using machine learning techniques,” *Journal of Electronics, Electromedical Engineering, and Medical Informatics*, vol. 4, no. 3, pp. 115–134, Jul. 2022, accessed on May 28, 2025. [Online]. Available: <https://jeeemi.org/index.php/jeeemi/article/view/225>
- [29] K. Sumwiza, C. Twizere, G. Rushingabigwi, P. Bakunzibake, and P. Bamurigire, “Enhanced cardiovascular disease prediction model using random forest algorithm,” *Informatics in Medicine Unlocked*, vol. 41, p. 101316, 2023, accessed on May 27, 2025. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2352914823001624>
- [30] I. O. KAMALU, “Impact of data splitting on performance of machine learning algorithms for predicting gestational diabetes,” Master’s thesis, NEAR EAST UNIVERSITY INSTITUTE OF GRADUATE STUDIES DEPARTMENT OF BIOSTATISTICS, June 2024, accessed on June 9, 2025. [Online]. Available: <https://docs.neu.edu.tr/library/9687303423.pdf>
- [31] M. Strickett and F. Mlambo, “Laboratory tests to detect covid-19 in south africa using statistical analysis and random forest modeling,” *The South African Statistical Journal*, vol. 20, no. 10, pp. 1–35, 09 2021, accessed on June 9, 2025.
- [32] T. Abigail, “Rancang bangun sistem klasifikasi tingkat obesitas dengan algoritma random forest classifier,” Tangerang, Banten, 2024, accessed on May 13, 2025.
- [33] A. Bhardwaj, “Framingham heart study dataset,” 2022, accessed on March 15, 2025. [Online]. Available: <https://www.kaggle.com/dsv/3493583>
- [34] R. Fadhilah Khan, “Implementasi metode random forest classifier untuk klasifikasi sub-kategori artikel media online,” Tangerang, Indonesia, 2021, accessed on June 11, 2025.

UNIVERSITAS
MULTIMEDIA
NUSANTARA