

## DAFTAR PUSTAKA

- [1] W. H. Organization, “Improving diabetes outcomes for all, a hundred years on from the discovery of insulin: report of the Global Diabetes Summit,” 2021.
- [2] I. B. Wayan Kardika, S. Herawati, and I. W. P. Surtiya Yasa, “PREANALITIC AND INTERPRETATION BLOOD GLUCOSE FOR DIAGNOSE DIABETIC MELITUS,” *E-Jurnal Medika Udayana*, vol. 2, no. 10, pp. 1707–1721, 2013.
- [3] W. H. Organization, “HEARTS D: diagnosis and management of type 2 diabetes,” World Health Organization, 2020.
- [4] D. Hestiana, “FAKTOR-FAKTOR YANG BERHUBUNGAN DENGAN KEPATUHAN DALAM PENGELOLAAN DIET PADA PASIEN RAWAT JALAN DIABETES MELLITUS TIPE 2 DI KOTA SEMARANG,” *JHE (Journal of Health Education)*, vol. 2, no. 2, pp. 137–145, 2017.
- [5] American Diabetes Association, *American Diabetes Association Standards of Medical Care In Diabetes*, vol. 41. USA: ADA, 2018.
- [6] S. Aghazadeh, A. Q. Aliyev, and M. Ebrahimnejad, “The role of computerizing physician orders entry (CPOE) and implementing decision support system (CDSS) for decreasing medical errors,” in *2011 5th International Conference on Application of Information and Communication Technologies (AICT)*, IEEE, Oct. 2011, pp. 1–3. doi: 10.1109/ICAICT.2011.6110916.
- [7] D. M. Hawkins, *Identification of outliers*, vol. 11. Springer, 1980.
- [8] N. L. Fitriyani, M. Syafrudin, G. Alfian, and J. Rhee, “HDPM: An Effective Heart Disease Prediction Model for a Clinical Decision Support System,” *IEEE Access*, vol. 8, pp. 133034–133050, 2020, doi: 10.1109/ACCESS.2020.3010511.
- [9] G. E. Batista, R. C. Prati, and M. C. Monard, “A study of the behavior of several methods for balancing machine learning training data,” *ACM SIGKDD explorations newsletter*, vol. 6, no. 1, pp. 20–29, 2004.
- [10] T. Le, M. Y. Lee, J. R. Park, and S. W. Baik, “Oversampling techniques for bankruptcy prediction: Novel features from a transaction dataset,” *Symmetry (Basel)*, vol. 10, no. 4, p. 79, 2018.
- [11] P. Mittal and N. S. Gill, “A comparative analysis of classification techniques on medical data sets,” *IJRET: International Journal of Research in engineering and Technology*, vol. 3, no. 06, pp. 454–460, 2014.
- [12] M. N. Abdullah and Y. B. Wah, “Improving Diabetes Mellitus Prediction with MICE and SMOTE for Imbalanced Data,” in *2022 3rd International Conference on Artificial Intelligence and Data Sciences (AiDAS)*, IEEE, 2022, pp. 209–214.
- [13] E. Sabitha and M. Durgadevi, “Improving the Diabetes Diagnosis Prediction Rate Using Data Preprocessing, Data Augmentation and Recursive Feature Elimination Method,” *International Journal of Advanced Computer Science and Applications*, vol. 13, no. 9, 2022.
- [14] Noviandi, “IMPLEMENTASI ALGORITMA DECISION TREE C4.5

- UNTUK PREDIKSI PENYAKIT DIABETES,” *Indonesian of Health Information Management Journal*, vol. 6, no. 1, 2018.
- [15] R. Rousyati, A. N. Rais, E. Rahmawati, and R. F. Amir, “Prediksi Pima Indians Diabetes Database Dengan Ensemble Adaboost Dan Bagging,” *Evolusi: Jurnal Sains dan Manajemen*, vol. 9, no. 2, 2021.
- [16] U. M. Butt, S. Letchmunan, M. Ali, F. H. Hassan, A. Baqir, and H. H. R. Sherazi, “Machine learning based diabetes classification and prediction for healthcare applications,” *J Healthc Eng*, vol. 2021, 2021.
- [17] M. F. Ijaz, G. Alfian, M. Syafrudin, and J. Rhee, “Hybrid prediction model for type 2 diabetes and hypertension using DBSCAN-based outlier detection, synthetic minority over sampling technique (SMOTE), and random forest,” *Applied Sciences*, vol. 8, no. 8, p. 1325, 2018.
- [18] X. Liu, Q. Yang, and L. He, “A novel DBSCAN with entropy and probability for mixed data,” *Cluster Comput*, vol. 20, no. 2, pp. 1313–1323, Jun. 2017, doi: 10.1007/s10586-017-0818-3.
- [19] Z. H. Ismail, A. K. K. Chun, and M. I. Shapiai Razak, “Efficient Herd – Outlier Detection in Livestock Monitoring System Based on Density – Based Spatial Clustering,” *IEEE Access*, vol. 7, pp. 175062–175070, 2019, doi: 10.1109/ACCESS.2019.2952912.
- [20] C.-H. Lin, K.-C. Hsu, K. R. Johnson, M. Luby, and Y. C. Fann, “Applying density-based outlier identifications using multiple datasets for validation of stroke clinical outcomes,” *Int J Med Inform*, vol. 132, p. 103988, Dec. 2019, doi: 10.1016/j.ijmedinf.2019.103988.
- [21] G. E. A. P. A. Batista, R. C. Prati, and M. C. Monard, “A study of the behavior of several methods for balancing machine learning training data,” *ACM SIGKDD Explorations Newsletter*, vol. 6, no. 1, pp. 20–29, Jun. 2004, doi: 10.1145/1007730.1007735.
- [22] T. Le and S. Baik, “A Robust Framework for Self-Care Problem Identification for Children with Disability,” *Symmetry (Basel)*, vol. 11, no. 1, p. 89, Jan. 2019, doi: 10.3390/sym11010089.
- [23] T. Le, M. Lee, J. Park, and S. Baik, “Oversampling Techniques for Bankruptcy Prediction: Novel Features from a Transaction Dataset,” *Symmetry (Basel)*, vol. 10, no. 4, p. 79, Mar. 2018, doi: 10.3390/sym10040079.
- [24] T. Le, M. T. Vo, B. Vo, M. Y. Lee, and S. W. Baik, “A Hybrid Approach Using Oversampling Technique and Cost-Sensitive Learning for Bankruptcy Prediction,” *Complexity*, vol. 2019, pp. 1–12, Aug. 2019, doi: 10.1155/2019/8460934.
- [25] D. J. Power, “What is a DSS,” *The On-line executive journal for data-intensive decision support*, vol. 1, no. 3, pp. 223–232, 1997.
- [26] I. Sim *et al.*, “Clinical decision support systems for the practice of evidence-based medicine,” *Journal of the American Medical Informatics Association*, vol. 8, no. 6, pp. 527–534, 2001.
- [27] F. Burgos *et al.*, “Telemedicine enhances quality of forced spirometry in primary care,” *European Respiratory Journal*, vol. 39, no. 6, pp. 1313–1318, 2012.

- [28] N. Buslim and R. P. Iswara, “Pengembangan Algoritma Unsupervised learning technique pada big data analysis di media sosial sebagai media promosi online bagi masyarakat,” *J. Tek. Inform*, vol. 12, no. 1, pp. 79–96, 2019.
- [29] M. L. Suyanto, “Tingkat Dasar dan Lanjut,” *Informatika Bandung*, 2018.
- [30] E. Brynjolfsson and T. Mitchell, “What can machine learning do? Workforce implications,” *Science (1979)*, vol. 358, no. 6370, pp. 1530–1534, 2017.
- [31] A. Hinneburg, “A Density Based Algorithm for Discovering Clusters in Large Spatial Databases with Noise,” in *KDD Conference, 1996*, 1996.
- [32] Z. Akbari and R. Unland, “Automated determination of the input parameter of DBSCAN based on outlier detection,” in *Ifip international conference on artificial intelligence applications and innovations*, Springer, 2016, pp. 280–291.
- [33] Tran Manh Thang and Juntae Kim, “The Anomaly Detection by Using DBSCAN Clustering with Multiple Parameters,” in *2011 International Conference on Information Science and Applications*, IEEE, Apr. 2011, pp. 1–5. doi: 10.1109/ICISA.2011.5772437.
- [34] M. Ester, H.-P. Kriegel, J. Sander, and X. Xu, “A density-based algorithm for discovering clusters in large spatial databases with noise,” in *kdd*, 1996, pp. 226–231.
- [35] G. E. Batista, R. C. Prati, and M. C. Monard, “A study of the behavior of several methods for balancing machine learning training data,” *ACM SIGKDD explorations newsletter*, vol. 6, no. 1, pp. 20–29, 2004.
- [36] D. L. Wilson, “Asymptotic properties of nearest neighbor rules using edited data,” *IEEE Trans Syst Man Cybern*, no. 3, pp. 408–421, 1972.
- [37] V. Vapnik, *The nature of statistical learning theory*. Springer science & business media, 1999.
- [38] C. Cortes and V. Vapnik, “Support-vector networks,” *Mach Learn*, vol. 20, no. 3, pp. 273–297, 1995.
- [39] R. Munawarah, O. Soesanto, and M. R. Faisal, “Penerapan Metode Support Vector Machine Pada Diagnosa Hepatitis,” *KLIK-KUMPULAN JURNAL ILMU KOMPUTER*, vol. 3, no. 1, pp. 103–113, 2016.
- [40] 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.
- [41] A. Nurlaily, “Prediksi Diabetes Berdasarkan Faktor Risiko Behavioral Menggunakan Algoritma Support Vector Machine ,” Institut Teknologi Sepuluh Nopember, Surabaya, 2018.
- [42] D. M. Allen, “The relationship between variable selection and data agumentation and a method for prediction,” *technometrics*, vol. 16, no. 1, pp. 125–127, 1974.
- [43] R. Kohavi, “A study of cross-validation and bootstrap for accuracy estimation and model selection,” in *Ijcai*, Montreal, Canada, 1995, pp. 1137–1145.
- [44] A. Fernández, S. García, M. Galar, R. C. Prati, B. Krawczyk, and F.

- Herrera, *Learning from imbalanced data sets*, vol. 10. Springer, 2018.
- [45] A. M. C. S. Guido, *Introduction to Machine Learning with Python*. O'Reilly Media, Incorporated, 2016. [Online]. Available: <https://books.google.co.id/books?id=36KsswEACAAJ>
- [46] M. Syafrudin, N. L. Fitriyani, G. Alfian, and J. Rhee, "An affordable fast early warning system for edge computing in assembly line," *Applied Sciences*, vol. 9, no. 1, p. 84, 2018.
- [47] M. Syafrudin, G. Alfian, N. L. Fitriyani, and J. Rhee, "Performance analysis of IoT-based sensor, big data processing, and machine learning model for real-time monitoring system in automotive manufacturing," *Sensors*, vol. 18, no. 9, p. 2946, 2018.
- [48] G. Alfian, M. Syafrudin, and J. Rhee, "Real-time monitoring system using smartphone-based sensors and nosql database for perishable supply chain," *Sustainability*, vol. 9, no. 11, p. 2073, 2017.