

## DAFTAR PUSTAKA

- [1] Salik, I., & Marwaha, R. "Electroconvulsive Therapy." StatPearls [Internet]. StatPearls Publishing, 2022. Available from: [PubMed].
- [2] Singh, R., Volner, K., & Marlowe, D. "Provider Burnout." StatPearls [Internet]. StatPearls Publishing, 2023. Available from: [PubMed].
- [3] Ormel, J., Kessler, R. C., & Schoevers, R. "Depression: more treatment but no drop in prevalence: how effective is treatment? And can we do better?" *Curr Opin Psychiatry*, 2019, 32(4), 348-354. Available from: [PubMed].
- [4] Institute of Health Metrics and Evaluation. "Global Health Data Exchange (GHDx)." Available from: <https://vizhub.healthdata.org/gbd-results/> (Accessed 4 March 2023).
- [5] Evans-Lacko S, Aguilar-Gaxiola S, Al-Hamzawi A, et al. "Socio-economic variations in the mental health treatment gap for people with anxiety, mood, and substance use disorders: results from the WHO World Mental Health (WMH) surveys." *Psychol Med.* 2018;48(9):1560-1571
- [6] Teoli D, Bhardwaj A. "Quality Of Life." [Updated 2023 Mar 27]. In: StatPearls [Internet]. Treasure Island (FL): *StatPearls Publishing*; 2025 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK536962/>
- [7] World Health Organization, "WHOQOL: Measuring Quality of Life." Retrieved January 23, 2025, from <https://www.who.int/toolkits/whoqol>
- [8] International Labour Organization, "World Employment and Social Outlook - Trends 2022," *Geneva: International Labour Organization*, 2022.
- [9] Ahsan, M. M., & Siddique, Z. "Machine Learning-Based Heart Disease Diagnosis: A Systematic Literature Review." *arXiv*, 2021, 2112.06459. Available from: [PubMed].
- [10] Stafford, I., Kellermann, M., Mossotto, E., Beattie, R., MacArthur, B., & Ennis, S. "A systematic review of the applications of artificial intelligence and machine learning in autoimmune diseases." *NPJ Digit. Med.*, 2020; 3:1–11. doi: 10.1038/s41746-020-0229-3. Available from: [PMC free

- article] [PubMed]
- [11] A. S. Handayani, S. Soim, T. E. Agusdi, Rumiasih dan A. Nurdin, “Klasifikasi Kualitas Udara Dengan Metode Support Vector Machine,” *JIRE (Jurnal Inform. Rekayasa Elektron.)*, vol. 3, no. 2, pp. 187-199, 2020.
  - [12] I. M. Parapat dan M. T. Furqon, “Penerapan Metode Support Vector Machine (SVM) Pada Klasifikasi Penyimpangan Tumbuh Kembang Anak,” vol.2, no.10, pp. 3163-3169, 2018.
  - [13] H. Hermanto, A. Mustopa, dan A.Y. Kuntoro, “Algoritma Klasifikasi Naive Bayes Dan Support Vector Machine Dalam Layanan Komplain Mahasiswa,” *JITK (Jurnal Ilmu Pengetahuan dan Teknologi Komputer)*, vol. 5, no.2, pp. 211-220, 2020, doi: 10.33480/jitk.v5i2.1181.
  - [14] Darussalam and G. Arief, “Jurnal Resti,” *Resti*, vol. 1, no. 1, pp. 19–25, 2018.
  - [15] F. Riandari, T. Sihotang, T. Tarigan, and M. Rafli, “Classification of Book Types Using the Support Vector Machine (SVM) Method,” *J. Mantik*, vol. 6, no. 1, pp. 43–49, 2022.
  - [16] A. A. Siregar, S. Soim, and M. Fadhlil, “Optimizing Malware Detection Using Back Propagation Neural Network and Hyperparameter Tuning,” *Indones. J. Artif. Intell. Data Min.*, vol. 6, no. 2, p. 220, 2023, doi: 10.24014/ijaidm. v6i2.24731.
  - [17] A. Michael and J. Rusman, “Klasifikasi Cacat Biji Kopi Menggunakan Metode Transfer Learning dengan Hyperparameter Tuning Gridsearch,” *J. Teknol. dan Manaj. Inform.*, vol. 9, no. 1, pp. 37–45, 2023, doi: 10.26905/jtmi.v9i1.10035.
  - [18] <https://www.kaggle.com/datasets/sonia2222/students-mental-health-assessments>
  - [19] “RESTI journal,” no. 10, 2021.
  - [20] S. Y. Andriyani, M. S. Lydia, and S. Efendi, “Optimization of Support Vector Machine Algorithm Using Stunting Data Classification,” *Prism. Sains J. Pengkaj. Ilmu dan Pembelajaran Mat. dan IPA IKIP Mataram*, vol. 11, no. 1, p. 164, 2023, doi: 10.33394/j-ps.v11i1.6619.

- [21] J. J. Informatika and R. Elektronika, “i ISSN . 2620-6900 ( Online ) 2620-6897 ( Cetak ),” vol. 3, no. 1, 2020.
- [22] A. Pinandito, S. A. Wicaksono, and S. H. Wijoyo, “Implementasi Machine Learning dalam Deteksi Risiko Tinggi Diabetes Melitus pada Kehamilan,” J. Teknol. Inf. dan Ilmu Komput., vol. 10, no. 4, pp. 739–746, 2023, doi: 10.25126/jtiik.20241047005.
- [23] S. Winiarti, “JURNAL INFORMATIKA Vol 2, No. 2, Juli 2008,” Pemanfaat. Teorema Bayes Dalam Penentuan Penyakit THT, vol. 2, no. 2, pp. 209–219, 2008.
- [24] J. Hu, H. Niu, J. Carrasco, B. Lennox and F. Arvin, "Voronoi-Based Multi-Robot Autonomous Exploration in Unknown Environments via Deep Reinforcement Learning," in IEEE Transactions on Vehicular Technology, vol. 69, no. 12, pp. 14413-14423, doi: 10.1109/TVT.2020.3034800, 2020.
- [25] arıcaoğlu, A.E., Aksoy, A., Kaya, T. "Prediction of Turkish Super League Match Results Using Supervised Machine Learning Techniques. In: Kahraman, C., Cebi, S., Cevik Onar, S., Oztaysi, B., Tolga, A., Sari, I. (eds) Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making." INFUS 2019. Advances in Intelligent Systems and Computing, vol 1029, 2020.
- [26] George H. Chen and Devavrat Shah, "Explaining the Success of Nearest Neighbor Methods in Prediction", Foundations and Trends® in Machine Learning: Vol. 10: No. 5-6, pp 337-588, 2018.  
<http://dx.doi.org/10.1561/2200000064>
- [27] H. A. Salman, A. Kalakech, and A. Steiti, “Random Forest Algorithm Overview”, Babylonian Journal of Machine Learning, vol. 2024, pp. 69–79, Jun. 2024.
- [28] H. Ozen and C. Bal, “A Study on Missing Data Problem in Random Forest”, Osmangazi J. Med., doi: 10.20515/otd.496524, 2019.
- [29] K. Vaishnavi, U. N. Kamath, B. A. Rao, and NV Subba Reddy, “Predicting Mental Illness Using Machine Learning Algorithms”, Journal of Physics: Conference Series 2161 (1), 012021, 2022.

- [30] T. Jain, A. Jain, P. S. Hada, H. Kumar, V. K. Verma, and A. Patni, "Machine Learning Techniques For Prediction of Mental Health", 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA), 1606-1613, 2021.
- [31] U. Madububambachu, A. Ukpebor, and U. Ihezue, "Machine Learning Techniques To Predict Mental Health Diagnoses: A Systematic Literature Review", Clinical Practice and Epidemiology in Mental Health: CP & EMH 20, e17450179315688, 2024.
- [32] W. Husain, L. K. Xin, N. A. Rashid and N. Jothi, "Predicting Generalized Anxiety Disorder among women using random forest approach," 2016 3rd International Conference on Computer and Information Sciences (ICCOINS), Kuala Lumpur, Malaysia, 2016, pp. 37-42, doi: 10.1109/ICCOINS.2016.7783185.
- [33] Fife, D.A., D'Onofrio, J. "Common, uncommon, and novel applications of random forest in psychological research." *Behav Res* 55, 2447–2466 (2023). <https://doi.org/10.3758/s13428-022-01901-9>
- [34] J. Liang, "Confusion Matrix: Machine Learning", *PAC*, vol. 3, no. 4, Dec. 2022. (PLACEHOLDER)
- [35] J. Liang, "Confusion Matrix: Machine Learning", *PAC*, vol. 3, no. 4, Dec. 2022.
- [36] Maxwell AE, Warner TA, Guillén LA. Accuracy Assessment in Convolutional Neural Network-Based Deep Learning Remote Sensing Studies—Part 1: Literature Review. *Remote Sensing*. 2021; 13(13):2450. <https://doi.org/10.3390/rs13132450>
- [37] Powers, David & Ailab. "Evaluation: From precision, recall and F-measure to ROC, informedness, markedness & correlation." *J. Mach. Learn. Technol.* 2. 2229-3981, 2011.10.9735/2229-3981..
- [38] Olson, David L.; and Delen, Dursun, "Advanced Data Mining Techniques." *Springer, 1st edition (February 1, 2008)*, page 138, 2008. [ISBN 3-540-76916-1](#).
- [39] Aziz Taha, Abdel, "[Metrics for evaluating 3D medical image](#)

- segmentation: analysis, selection, and tool". *BMC Medical Imaging.* **15** (29): 1–28, 2015. doi:[10.1186/s12880-015-0068-x](https://doi.org/10.1186/s12880-015-0068-x)
- [40] H. Elmunsyah, R. Mu'awanah, T. Widiyaningtyas, I. A. E. Zaeni and F. A. Dwiyanto, "Classification of Employee Mental Health Disorder Treatment with K-Nearest Neighbor Algorithm," *2019 International Conference on Electrical, Electronics and Information Engineering (ICEEIE)*, Denpasar, Indonesia, 2019, pp. 211-215, doi: 10.1109/ICEEIE47180.2019.8981418.
- [41] S. Appiah, S. Barnard and J. Deiven, "Density-based Clustering of Workplace Effects on Mental Health", 2017, [online] Available: <https://www.researchgate.net/publication>
- [42] Iyortsuun NK, Kim S-H, Jhon M, Yang H-J and Pant S, "A Review of Machine Learning and Deep Learning Approaches on Mental Health Diagnosis", *Healthcare.* 11(3): 285, 2023.
- [43] Bisong E, "Building Machine Learning and Deep Learning Models on Google Cloud Platform", *Apress*, Berkeley, CA, 2019.
- [44] Banachewicz K and Massaron L, "The Kaggle Book: Data Analysis and Machine Learning For Competitive Data", *Packt Publishing Ltd*, 2022.
- [45] H. Zhou, "Learn Data Mining Through Excel" A Step-by-Step Approach for Understanding Machine Learning Methods", *Apress*, Berkeley, CA, 2022.
- [46] Ahmed A., Sultana R., Ullas M.T.R., Begom M., Rahi M.M.I., Alam M.A., "A machine learning approach to detect depression and anxiety using supervised learning", *2020 IEEE Asia-Pacific Conference on Computer Science and Data Engineering*, , pp. 1-6, CSDE, 2020.
- [47] Vartak M., Huang S., Siddiqui T., Madden S., Parameswaran A. "Towards visualization recommendation systems", *SIGMOD Rec.*, 45, pp. 34-39 (4) 2016, 10.1145/3092931.3092937
- [48] S.K Shivaiah, K. Krishnappa, N.K Boraiah, P.D Shenoy, V.K Rajuk "Prediction of mental illness using ensemble model and grid search hyperparameter optimization", *Bulletin of Electrical Engineering and Informatics* 13 (5), 3726-3736, 2024.

- [49] World Health Organization. (2024, October 10). "Mental health of adolescents." Retrieved January 23, 2025, from <https://www.who.int/news-room/fact-sheets/detail/adolescent-mental-health>
- [50] Anita Thapar, Olga Eyre, Vikram Patel, David Brent, "Depression in Young People" *SEMINAR, Vol 400, Issue 10352*, P617-631, 2022.
- [51] W. Darmastyo, " Prediksi Hasil Pertandingan Sepakbola Premier League Dengan Menggunakan Algoritma K-Nearest Neighbours dan Naïve Bayes" 2020.
- [52] F. Roque, " Data Forecasting and Segmentation Using Microsoft Excel: Perform data grouping, linear predictions, and time series machine learning statistics without using code", *Packt Publishing Ltd*, 2022.
- [53] Ali, O. , Breik, M. , Aly, T. , Raslan, A. and Gheith, M. "Enhancing Data Analysis and Automation: Integrating Python with Microsoft Excel for Non-Programmers." *Journal of Software Engineering and Applications*, 17, 530-540. doi: 10.4236/jsea.2024.176030, 2024.
- [54] A.Y Wang, D. Wang, J. Drozdal, X. Liu, S. Park, S. Oney, and C. Brooks., "What Makes a Well-Documented Notebook? A Case Study of Data Scientists' Documentation Practices in Kaggle. In Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems (CHI EA '21)", *Association for Computing Machinery*, New York, NY, USA, Article 445, 1–7, 2021.
- [55] C. Jennifer, " May the Best Analyst Win" *Science Magazine*. Vol. 331, no. 6018. pp. 698–699, 2011.
- [56] J. Sonas, "The Deloitte/FIDE Chess Rating Challenge". *Chessbase*, 2011.
- [57] F. Foo, ""Smartphones to predict NSW travel times?". *The Australian*, 2011.
- [58] Sukhdeve, D.S.R., Sukhdeve, S.S., "Google Colaboratory. In: Google Cloud Platform for Data Science.". Apress, Berkeley, CA, 2023.
- [59] J. Carneiro, R. V. Medeiros Da Nóbrega, T. Nepomuceno, G. -B. Bian, V. H. C. De Albuquerque and P. P. R. Filho, "Performance Analysis of Google Colaboratory as a Tool for Accelerating Deep Learning

- Applications". *IEEE Access*, vol. 6, pp. 61677-61685, 2018, doi: 10.1109/ACCESS.2018.2874767, 2018.
- [60] Aruldoss, A., Kowalski, K.B. and Parayitam, S. , "The relationship between quality of work life and work-life-balance mediating role of job stress, job satisfaction and job commitment: evidence from India", *Journal of Advances in Management Research*, Vol. 18 No. 1, pp. 36-62, 2021, <https://doi.org/10.1108/JAMR-05-2020-0082>.
- [61] Wendy L Martinez, et.al, "Exploratory Data Analysis with MATLAB" *CRC*, 2017.
- [62] Andrew T. Jebb, et.al, "Exploratory data analysis as a foundation of inductive research", *Human Resource Management Review*, Volume 27, Issue 2, 2017, Pages 265-276, ISSN 1053-4822, <https://doi.org/10.1016/j.hrmr.2016.08.003>.
- [63] Carranza, E.J.M. "Exploratory Data Analysis. In: Daya Sagar, B.S., Cheng, Q., McKinley, J., Agterberg, F. (eds) Encyclopedia of Mathematical Geosciences. Encyclopedia of Earth Sciences Series." *Springer, Cham*. 2023. [https://doi.org/10.1007/978-3-030-85040-1\\_105](https://doi.org/10.1007/978-3-030-85040-1_105).
- [64] A. Rawat, "A Review on Python Programming", *IJRESM*, vol. 3, no. 12, pp. 8–11, Dec. 2020, Accessed: Feb. 04, 2025. [Online]. Available: <https://journal.ijresm.com/index.php/ijresm/article/view/395>
- [65] A.M. Kuchling " Pep 206" *Python Advanced Library*, 2021.
- [66] Akshansh Sharma, et. al, "Python: The Programming Language of Future", *FY Student Int. J. Innovative Res. Technol* 6 (2), 115-118, Global Institute of Technology, IT Park, Sitapura Industrial Area, Jaipur, Rajasthan, India, 2020.
- [67] García, S., et. al, "Big data preprocessing: methods and prospects." *Big Data Anal* 1, 9, 2016, <https://doi.org/10.1186/s41044-016-0014-0>.
- [68] Suad A Alasadi dan Wesam S Bhaya, "Review of Data Preprocessing Techniques in Data Mining", *Journal of Engineering and Applied Sciences* 12 (16), 4102-4107, 2017.

- [69] Almuhaideb, S., Menai, M.E.B. "Impact of preprocessing on medical data classification. Front. Comput." Sci. 10, 1082–1102 2016, <https://doi.org/10.1007/s11704-016-5203-5>
- [70] Aized Amin Soofi and Arshad Awan, "Classification Techniques in Machine Learning: Applications and Issues", *J. Basic Appl. Sci.*, vol. 13, pp. 459–465, Jan. 2017.
- [71] S. P. Utami, "Klasifikasi Kesehatan Mental Usia Remaja Menggunakan Algoritma Naive Bayes dan K-Nearest Neighbour," *Fakultas Sains dan Teknologi*, UIN Syarif Hidayatullah Jakarta, 2020
- [72] N. Moningka, Raynold, M. Hafidurrohman, W. A. T. R., dan Kusrini, "Klasifikasi Mental Mahasiswa Menggunakan Metode Machine Learning," *Jurnal Quancom*, vol. 1, no. 2, hlm. 27–32, Desember 2023.