

DAFTAR PUSTAKA

- [1] Kementerian Kesehatan Republik Indonesia, *Survei Status Gizi Indonesia (SSGI) 2024 dalam Angka*. 2024. Accessed: Dec. 26, 2025. [Online]. Available:
https://drive.google.com/file/d/1FmhMtFsElv0l95YNGqsoKy5xJh-m-gIM/view?usp=drive_link
- [2] A. R. Ferdina, P. P. Arfines, and N. K. Aryastami, “Obesity in urban Indonesia: evidence from the 2007 and 2018 Basic Health Research,” *Med J Indones*, vol. 33, no. 2, pp. 119–27, Jul. 2024, doi: 10.13181/mji.oa.247183.
- [3] S. Susetyowati, E. Huriyati, F. Faza, N. D. G. Sanubari, and A. Syauqy, “Development of a quality eating index and its relationship with nutritional status in adults,” *Journal of Public Health Research*, vol. 14, no. 2, p. 22799036251329420, Apr. 2025, doi: 10.1177/22799036251329420.
- [4] World Health Organization, “Health at a Glance: Asia/Pacific 2024,” World Health Organization (WHO), Geneva, 2024. [Online]. Available:
<https://data.who.int/countries/360>
- [5] M. Wahidin *et al.*, “Projection of diabetes morbidity and mortality till 2045 in Indonesia based on risk factors and NCD prevention and control programs,” *Sci Rep*, vol. 14, no. 1, p. 5424, Mar. 2024, doi: 10.1038/s41598-024-54563-2.
- [6] World Health Organization, “Indonesia: Obesity rates among adults double over past two decades,” Mar. 2021. Accessed: Dec. 29, 2025. [Online]. Available:
<https://www.who.int/indonesia/news/detail/04-03-2021-indonesia-obesity-rates-among-adults-double-over-past-two-decades>
- [7] O. A. Anyanwu *et al.*, “The Socio-Ecological Context of the Nutrition Transition in Indonesia: A Qualitative Investigation of Perspectives from Multi-Disciplinary Stakeholders,” *Nutrients*, vol. 15, no. 1, p. 25, Dec. 2022, doi: 10.3390/nu15010025.
- [8] Panel on Macronutrients *et al.*, *Dietary Reference Intakes for Energy, Carbohydrate, Fiber, Fat, Fatty Acids, Cholesterol, Protein, and Amino*

- Acids*. Washington, D.C.: National Academies Press, 2005, p. 10490. doi: 10.17226/10490.
- [9] J. N. Bondevik, K. E. Bennin, Ö. Babur, and C. Ersch, “A systematic review on food recommender systems,” *Expert Systems with Applications*, vol. 238, p. 122166, Mar. 2024, doi: 10.1016/j.eswa.2023.122166.
- [10] R. Singh and P. Dwivedi, “Food Recommendation Systems Based On Content-based and Collaborative Filtering Techniques,” in *2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, Delhi, India: IEEE, Jul. 2023, pp. 1–5. doi: 10.1109/ICCCNT56998.2023.10307080.
- [11] T. N. Trang Tran, M. Atas, A. Felfernig, and M. Stettinger, “An overview of recommender systems in the healthy food domain,” *J Intell Inf Syst*, vol. 50, no. 3, pp. 501–526, Jun. 2018, doi: 10.1007/s10844-017-0469-0.
- [12] R. Yera, A. A. Alzahrani, L. Martínez, and R. M. Rodríguez, “A Systematic Review on Food Recommender Systems for Diabetic Patients,” *IJERPH*, vol. 20, no. 5, p. 4248, Feb. 2023, doi: 10.3390/ijerph20054248.
- [13] M. Phanich, P. Pholkul, and S. Phimoltares, “Food Recommendation System Using Clustering Analysis for Diabetic Patients,” in *2010 International Conference on Information Science and Applications*, Seoul, Korea (South): IEEE, 2010, pp. 1–8. doi: 10.1109/ICISA.2010.5480416.
- [14] Nidhi Waghela, Jahanvi Mistry, Melony Bharucha, and Ms. Monali Parikh, “Diet Recommendation System Using K-Means Clustering Algorithm of Machine Learning,” *Int. J. Sci. Res. Comput. Sci. Eng. Inf. Technol*, vol. 10, no. 6, pp. 567–571, Nov. 2024, doi: 10.32628/CSEIT2410445.
- [15] F. Nurulhikmah and D. N. E. Abdi, “Classification of Foods Based on Nutritional Content Using K-Means and DBSCAN Clustering Methods,” *teknika*, vol. 13, no. 3, pp. 481–486, Oct. 2024, doi: 10.34148/teknika.v13i3.1067.
- [16] H. H. Al-Chalabi and M. N. Jasim, “Food Recommendation System Based on Data Clustering Techniques and User Nutrition Records,” in *New Trends in Information and Communications Technology Applications*, vol. 1764, A. M. Al-Bakry, S. O. Al-Mamory, M. A. Sahib, L. E. George, J. A. Aldhaibani,

- H. S. Hasan, and G. S. Oreku, Eds., in *Communications in Computer and Information Science*, vol. 1764. , Cham: Springer Nature Switzerland, 2023, pp. 139–161. doi: 10.1007/978-3-031-35442-7_8.
- [17] B. Greve, I. Pigeot, I. Huybrechts, V. Pala, and C. Börnhorst, “A comparison of heuristic and model-based clustering methods for dietary pattern analysis,” *Public Health Nutr.*, vol. 19, no. 2, pp. 255–264, Feb. 2016, doi: 10.1017/S1368980014003243.
- [18] A. Maugeri *et al.*, “The Application of Clustering on Principal Components for Nutritional Epidemiology: A Workflow to Derive Dietary Patterns,” *Nutrients*, vol. 15, no. 1, p. 195, Dec. 2022, doi: 10.3390/nu15010195.
- [19] P. J. Rousseeuw, “Silhouettes: A graphical aid to the interpretation and validation of cluster analysis,” *Journal of Computational and Applied Mathematics*, vol. 20, pp. 53–65, Nov. 1987, doi: 10.1016/0377-0427(87)90125-7.
- [20] D. L. Davies and D. W. Bouldin, “A Cluster Separation Measure,” *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. PAMI-1, no. 2, pp. 224–227, Apr. 1979, doi: 10.1109/TPAMI.1979.4766909.
- [21] T. Calinski and J. Harabasz, “A dendrite method for cluster analysis,” *Comm. in Stats. - Theory & Methods*, vol. 3, no. 1, pp. 1–27, 1974, doi: 10.1080/03610927408827101.
- [22] D. Chicco, A. Campagner, A. Spagnolo, D. Ciucci, and G. Jurman, “The Silhouette coefficient and the Davies-Bouldin index are more informative than Dunn index, Calinski-Harabasz index, Shannon entropy, and Gap statistic for unsupervised clustering internal evaluation of two convex clusters,” *PeerJ Computer Science*, vol. 11, p. e3309, Nov. 2025, doi: 10.7717/peerj-cs.3309.
- [23] S. H. Pothineni, “Offline-First Mobile Architecture: Enhancing Usability and Resilience in Mobile Systems,” *JAIGS*, vol. 7, no. 01, pp. 320–326, Dec. 2024, doi: 10.60087/jaigs.v7i01.387.
- [24] A. A. Al-Asadi and M. N. Jasim, “Dietary Behavior Based Food Recommender System Using Deep Learning and Clustering Techniques,” *WJCMS*, vol. 2, no. 2, pp. 1–8, Jun. 2023, doi: 10.31185/wjcm.126.

- [25] G. Qiao *et al.*, “Food recommendation towards personalized wellbeing,” *Trends in Food Science & Technology*, vol. 156, p. 104877, Feb. 2025, doi: 10.1016/j.tifs.2025.104877.
- [26] H. Cena and P. C. Calder, “Defining a Healthy Diet: Evidence for the Role of Contemporary Dietary Patterns in Health and Disease,” *Nutrients*, vol. 12, no. 2, p. 334, Jan. 2020, doi: 10.3390/nu12020334.
- [27] B. J. Venn, “Macronutrients and Human Health for the 21st Century,” *Nutrients*, vol. 12, no. 8, p. 2363, Aug. 2020, doi: 10.3390/nu12082363.
- [28] N. Sauvageot *et al.*, “Stability-based validation of dietary patterns obtained by cluster analysis,” *Nutr J*, vol. 16, no. 1, p. 4, Dec. 2017, doi: 10.1186/s12937-017-0226-9.
- [29] Y. Balakrishna, S. Manda, H. Mwambi, and A. Van Graan, “Determining classes of food items for health requirements and nutrition guidelines using Gaussian mixture models,” *Front. Nutr.*, vol. 10, p. 1186221, Oct. 2023, doi: 10.3389/fnut.2023.1186221.
- [30] Y. Kawada, “Cosine similarity and the Borda rule,” *Soc Choice Welf*, vol. 51, no. 1, pp. 1–11, Jun. 2018, doi: 10.1007/s00355-017-1104-2.
- [31] K. Venkatesh Sharma, P. R. Ayiluri, R. Betala, P. Jagdish Kumar, and K. Shirisha Reddy, “Enhancing query relevance: leveraging SBERT and cosine similarity for optimal information retrieval,” *Int J Speech Technol*, vol. 27, no. 3, pp. 753–763, Sep. 2024, doi: 10.1007/s10772-024-10133-5.
- [32] I. F. Ashari, E. Dwi Nugroho, R. Baraku, I. Novri Yanda, and R. Liwardana, “Analysis of Elbow, Silhouette, Davies-Bouldin, Calinski-Harabasz, and Rand-Index Evaluation on K-Means Algorithm for Classifying Flood-Affected Areas in Jakarta,” *JAIC*, vol. 7, no. 1, pp. 89–97, Jul. 2023, doi: 10.30871/jaic.v7i1.4947.
- [33] R. D. Agustia and A. C. Abadi, “KAWANKULINER: PERSONALISED FOOD RECOMMENDATION APP USING BMR AND TDEE FOR OPTIMAL DAILY NUTRITION,” *JMSI*, vol. 4, no. 2, Oct. 2024, doi: 10.46754/jmsi.2024.10.004.

- [34] Ariyo Aziz Pratama and Joko Aryanto, “Calorie Intake Monitoring Application Using the Mifflin–St Jeor Algorithm,” *JSRET*, vol. 4, no. 4, pp. 2160–2177, Nov. 2025, doi: 10.58526/jsret.v4i4.913.
- [35] H. Pontzer *et al.*, “Daily energy expenditure through the human life course,” *Science*, vol. 373, no. 6556, pp. 808–812, Aug. 2021, doi: 10.1126/science.abe5017.
- [36] D. M. Ostendorf *et al.*, “Physical Activity Energy Expenditure and Total Daily Energy Expenditure in Successful Weight Loss Maintainers,” *Obesity*, vol. 27, no. 3, pp. 496–504, Mar. 2019, doi: 10.1002/oby.22373.
- [37] J. M. H. Pinheiro *et al.*, “The Impact of Feature Scaling in Machine Learning: Effects on Regression and Classification Tasks,” *IEEE Access*, vol. 13, pp. 199903–199931, 2025, doi: 10.1109/ACCESS.2025.3635541.