

DAFTAR PUSTAKA

- [1] R. Ruliyanta, E. Nugroho, R. Kusumoputro, and R. Nugroho, "A novel green building energy consumption intensity: Study in inalum green building."
- [2] L. Yu, S. Qin, M. Zhang, C. Shen, T. Jiang, and X. Guan, "A review of deep reinforcement learning for smart building energy management," *IEEE Internet of Things Journal*, vol. 8, p. 12046–12063, 08 2021. [Online]. Available: <https://ieeexplore.ieee.org/document/9426901>
- [3] Z. Chen, C. Jiang, and L. Xie, "Building occupancy estimation and detection: A review," *Energy and Buildings*, vol. 169, pp. 260–270, 06 2018. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0378778818301506>
- [4] S. Mischie and G. Gasparesc, "On using respeaker mic array 2.0 for speech processing algorithms," 11 2020.
- [5] Q. Huang, Z. Ge, and C. Lu, "Occupancy estimation in smart buildings using audio-processing techniques occupancy estimation in smart buildings using audio-processing techniques," 2016.
- [6] H. Dolka, A. X. V. M, and S. Juliet, "Speech emotion recognition using ann on mfcc features," *2021 3rd International Conference on Signal Processing and Communication (ICPSC)*, 05 2021.
- [7] Smitha, S. Hegde, S. Shetty, and T. Dodderi, "Classification of healthy and pathological voices using mfcc and ann," 2018.
- [8] M. M. Milani, M. Ramashini, and M. Krishani, "A real-time application to detect human voice disorders," *2020 International Conference on Decision Aid Sciences and Application (DASA)*, vol. 3, pp. 979–984, 11 2020.
- [9] R. Luis, "Klasifikasi daerah asal musik tradisional menggunakan convolutional neural network (cnn) dan mel frequency cepstrum coefficients (mfcc)," Master's thesis, UGM, 2022.
- [10] X. Mu and H. Min, "Mfcc as features for speaker classification using machine learning."
- [11] A. W. Ramadhan, A. Wijayanto, and H. Oktavianto, "Implementation of audio event recognition for the elderly home support using convolutional neural networks."
- [12] "Respeaker mic array v2.0 | seed studio wiki," wiki.seedstudio.com, 01 2023. [Online]. Available: https://wiki.seedstudio.com/ReSpeaker_Mic_Array_v2.0/
- [13] G. Sharma, K. Umapathy, and S. Krishnan, "Trends in audio signal feature extraction methods," *Applied Acoustics*, vol. 158, p. 107020, 01 2020.
- [14] H. Heriyanto and D. A. Irawati, "Comparison of mel frequency cepstral coefficient (mfcc) feature extraction, with and without framing feature selection, to test the shahada recitation," *RSF Conference Series: Engineering and Technology*, vol. 1, pp. 335–354, 12 2021.

- [15] B. Mcfee, C. Raffel, D. Liang, D. Ellis, M. Mcvcar, E. Battenberg, and O. Nieto, “librosa: Audio and music signal analysis in python,” *PROC. OF THE 14th PYTHON IN SCIENCE CONF*, 2015.
- [16] D. Elbourhamy, “Intelligent techniques for instructor performance evaluation.”
- [17] J. G. Proakis, D. G. Manolakis, and Pearson, *Digital signal processing*. Pearson, Cop, 2013.
- [18] “Practical cryptography,” *Practicalcryptography.com*, 2009. [Online]. Available: <http://practicalcryptography.com/miscellaneous/machine-learning/guide-mel-frequency-cepstral-coefficients-mfccs/>
- [19] H. Sheikh, C. Prins, and E. Schrijvers, “Artificial intelligence: Definition and background,” *Research for Policy*, pp. 15–41, 2023.
- [20] V. Gupta, V. K. Mishra, P. Singhal, and A. Kumar, “An overview of supervised machine learning algorithm,” *2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)*, 12 2022.
- [21] R. N. Thomas and R. Gupta, “A survey on machine learning approaches and its techniques:,” *2020 IEEE International Students’ Conference on Electrical, Electronics and Computer Science (SCEECS)*, 02 2020.
- [22] M. Daud Shakil, M. Rahman, M. Soliman, and M. Islam, “Automatic isolated speech recognition system using mfcc analysis and artificial neural network classifier: Feasible for diversity of speech applications.”
- [23] B. Farnham, S. Tokyo, B. Boston, F. Sebastopol, and T. Beijing, “Nikhil buduma fundamentals of deep learning designing next-generation machine intelligence algorithms with contributions by nicholas locascio.”
- [24] L. Alzubaidi, J. Zhang, A. J. Humaidi, A. Al-Dujaili, Y. Duan, O. Al-Shamma, J. Santamaría, M. A. Fadhel, M. Al-Amidie, and L. Farhan, “Review of deep learning: concepts, cnn architectures, challenges, applications, future directions,” *Journal of Big Data*, vol. 8, 03 2021.
- [25] K. Team, “Keras documentation: Losses,” *keras.io*. [Online]. Available: <https://keras.io/api/losses/>
- [26] K. H. Rosen, *Discrete mathematics and its applications*. New York, Ny McGraw-Hill Education, 2019.
- [27] A. Shende, S. Yeole, H. T. Kanakia, and S. Salmani, “Comparative analysis of svm, decision tree, random forest for crop recommendation,” *2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, vol. 975, pp. 1018–1022, 01 2024.
- [28] P. Karthika, R. Murugeswari, and M. Manoranjithem, “Sentiment analysis of social media network using random forest algorithm.”
- [29] K. Team, “Keras documentation: Pooling layers,” *keras.io*. [Online]. Available: https://keras.io/api/layers/pooling_layers/

- [30] M. R. Hossain, D. Timmer, and H. Moya, "Machine learning model optimization with hyper-parameter tuning approach," 08 2021.
- [31] J. Wu, X.-Y. Chen, H. Zhang, L.-D. Xiong, H. Lei, and S.-H. Deng, "Hyperparameter optimization for machine learning models based on bayesian optimization."
- [32] ilyamich, "Mfcc implementation and tutorial," kaggle. [Online]. Available: <https://www.kaggle.com/code/ilyamich/mfcc-implementation-and-tutorial>
- [33] G. Song, X. Liu, X. Zeng, H. Luo, D. Wang, and B. Zhang, "A deep-shallow network for passive underwater target recognition," *2020 IEEE 22nd International Conference on High Performance Computing and Communications; IEEE 18th International Conference on Smart City; IEEE 6th International Conference on Data Science and Systems (HPCC/SmartCity/DSS)*, 12 2020.
- [34] A. Polo-Rodriguez, J. M. Vilchez Chiachio, C. Paggetti, and J. Medina-Quero, "Ambient sound recognition of daily events by means of convolutional neural networks and fuzzy temporal restrictions," *Applied Sciences*, vol. 11, p. 6978, 07 2021.
- [35] M. Akamine and J. Ajmera, "Decision tree-based acoustic models for speech recognition," *EURASIP Journal on Audio, Speech, and Music Processing*, vol. 2012, 02 2012.
- [36] Y. Zhang and D.-J. Lv, "Send orders for reprints to reprints@benthamsience.ae the open automation and control systems journal," vol. 7, pp. 135–142, 2015.