

DAFTAR PUSTAKA

- [1] Intergovernmental Panel on Climate Change, *Climate Change 2021: The Physical Science Basis*. Cambridge, U.K.: Cambridge University Press, 2021.
- [2] S. Ö. Arik and T. Pfister, “TabNet: Attentive interpretable tabular learning,” *Proc. AAAI Conf. Artif. Intell.*, vol. 35, no. 8, pp. 6679–6687, 2021, doi: 10.1609/aaai.v35i8.16826.
- [3] J. Yan, T. Xu, Y. Yu, and H. Xu, “Rainfall forecast model based on the TabNet model,” *Water*, vol. 13, no. 9, Art. no. 1272, 2021, doi: 10.3390/w13091272.
- [4] S. Wang and X. Zhang, “Research on credit default prediction model based on TabNeT-Stacking,” *Entropy*, vol. 26, no. 10, Art. no. 861, 2024.
- [5] Y. R., K. Lal, and A. Choi, “Heart disease prediction using hybrid TabNet architecture with stacked ensemble learning,” *Frontiers in Physiology*, vol. 16, 2025.
- [6] T. Chen and C. Guestrin, “XGBoost: A scalable tree boosting system,” in *Proc. 22nd ACM SIGKDD Int. Conf. Knowledge Discovery and Data Mining*, 2016, pp. 785–794, doi: 10.1145/2939672.2939785.
- [7] T. Akiba, S. Sano, T. Yanase, T. Ohta, and M. Koyama, “Optuna: A next-generation hyperparameter optimization framework,” in *Proc. 25th ACM SIGKDD Int. Conf. Knowledge Discovery and Data Mining*, 2019, pp. 2623–2631.
- [8] S. M. Meyliana, Z. Mar’ah, and H. Hafid, “Statistical downscaling modeling with time lag components for forecasting rainfall in wet and dry seasons,” *VARIANSI: Journal of Statistics and Its Application on Teaching and Research*, vol. 5, no. 3, 2023, doi: 10.35580/variensiunm180,
- [9] M. L. D. Aswin, S. Geetha, and K. Vinayakumar, “Rainfall prediction: A comparative analysis of modern machine learning algorithms for time-series forecasting,” *Machine Learning with Applications*, vol. 7, Art. no. 100204, 2022, doi: 10.1016/j.mlwa.2021.100204.
- [10] S. P. Ashok and S. Pekkat, “A systematic quantitative review on the performance of some of the recent short-term rainfall forecasting techniques,” *Journal of Water and Climate Change*, vol. 13, no. 8, pp. 3004–3029, 2022, doi: 10.2166/wcc.2022.302.
- [11] B. Bochenek and Z. Ustrnul, “Machine learning in weather prediction and climate analyses—Applications and perspectives,” *Atmosphere*, vol. 13, no. 2, Art. no. 180, 2022, doi: 10.3390/atmos13020180,
- [12] “Deep learning-based weather prediction: A survey,” *Big Data Research*, vol. 23, Art. no. 100178, 2021, doi: 10.1016/j.bdr.2020.100178.
- [13] Y. Zhang and A. Ye, “Machine learning for precipitation forecasts postprocessing: Multimodel comparison and experimental investigation,” *Journal of Hydrometeorology*, vol. 22, no. 11, pp. 3065–3085, 2021, doi: 10.1175/JHM-D-21-0096.1.
- [14] H. Zhu, Q. Zhou, and A. Cui, “Comparison and evaluation of machine-learning-based spatial downscaling approaches on satellite-derived precipitation data,” *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. X-1/W1-2023, pp. 919–924, 2023, doi: 10.5194/isprs-annals-X-1-W1-2023-919-2023.

- [15] P. Islam and M. A. Imteaz, "A novel hybrid approach for predicting Western Australia's seasonal rainfall variability," *Water Resources Management*, vol. 36, pp. 3649–3672, 2022.
- [16] M. H. Dehvari, S. Farzaneh, and E. Forootan, "Forecasting rainfall events based on zenith wet delay time series utilizing eXtreme gradient boosting (XGBoost)," *Advances in Space Research*, 2025.
- [17] X. Wang et al., "Enhancing short-term forecasting of daily precipitation using numerical weather prediction bias correcting with XGBoost in different regions of China," *Engineering Applications of Artificial Intelligence*, vol. 117, Art. no. 105579, 2023.
- [18] S. A. Putri, G. Darmawan, R. Arisanti, and C. C. Clorinda, "Extreme Gradient Boosting method forecasting rainfall in Lembang District, West Java Province," *Indo-MathEdu Intellectuals Journal*, vol. 4, no. 3, pp. 1959–1972, 2023.
- [19] W. Sanders, D. Li, W. Li, and Z. N. Fang, "Data-driven flood alert system using extreme gradient boosting (XGBoost) to forecast flood stages," *Water*, vol. 14, no. 5, Art. no. 747, 2022.
- [20] P. Parviz and M. Ghorbanpour, "Assimilation of PSO and SVR into an improved ARIMA model for monthly precipitation forecasting," *Scientific Reports*, vol. 14, Art. no. 12107, 2024.
- [21] P. Wati and Adriyansyah, "Comparison of rainfall prediction results in South Bangka Regency using support vector regression and SARIMA," *CoreID Journal*, vol. 2, no. 3, pp. 86–92, 2024.
- [22] M. R. Patiallo, M. Fathurahman, S. Prangga, and E. N. Widyaningrum, "Prediksi curah hujan di Kabupaten Berau menggunakan support vector regression," *EKSPONENSIAL*, 2026.
- [23] I. Kadir, W. Sanusi, and J. Ja'faruddin, "Comparison of support vector regression and random forest methods for rainfall prediction in Makassar City," *Journal of Mathematics, Computations and Statistics*, 2026.
- [24] A. Fahmi, Amali, and A. Badruzzaman, "Prediksi curah hujan Jawa Barat menggunakan algoritma machine learning: Analisis komparatif berbasis data Badan Meteorologi, Klimatologi, dan Geofisika (BMKG) 2024," *Journal of Information System Research*, vol. 7, no. 2, 2026, doi: 10.47065/josh.v7i2.9018.
- [25] G. Grazzini, J. Dorrington, C. M. Grams, G. C. Craig, L. Magnusson, and F. Vitart, "Improving forecasts of precipitation extremes over northern and central Italy using machine learning," *Quarterly Journal of the Royal Meteorological Society*, vol. 150, no. 762, pp. 3167–3181, 2024.
- [26] Q. Jiang, F. Cioffi, W. Li, J. Tan, X. Pan, and X. Li, "Hybrid multilayer perceptron and convolutional neural network model to predict extreme regional precipitation dominated by the large-scale atmospheric circulation," *Atmospheric Research*, vol. 304, Art. no. 107362, 2024.
- [27] Y. Fan, Y. Lyu, and S. Zhu, "Monthly prediction on summer extreme precipitation with a deep learning approach: Experiments over the mid-to-lower reaches of the Yangtze River," *Earth and Space Science*, vol. 11, no. 11, 2024.

- [28] B. Wang, W. Wei, Z. Yin, and L. Xu, "Using machine learning to analyze the changes in extreme precipitation in southern China," *Atmospheric Research*, vol. 302, Art. no. 107307, 2024.
- [29] P. Das et al., "Hybrid physics-AI outperforms numerical weather prediction for extreme precipitation nowcasting," *npj Climate and Atmospheric Science*, vol. 7, Art. no. 282, 2024.
- [30] Y. Cao et al., "Enhancing machine learning models for nowcasting and short-term forecasting of precipitation with a novel probability-matching loss function," *Geophysical Research Letters*, 2025.
- [31] S. Zhan, A. Ye, L. Wu, and C. Zhao, "Ensemble post-processing of sub-seasonal to seasonal precipitation forecasts based on a novel probabilistic double machine learning method," *Journal of Hydrology*, vol. 660, Art. no. 133484, 2025.
- [32] E. Pinheiro and T. B. M. J. Ouarda, "An interpretable machine learning model for seasonal precipitation forecasting," *Communications Earth & Environment*, vol. 6, Art. no. 222, 2025.
- [33] Q. Zhou et al., "Incorporating novel input variable selection method for rainfall prediction in different water basins of Thailand," *Alexandria Engineering Journal*, vol. 86, pp. 557–576, 2024.
- [34] "Seasonal WaveNet-LSTM: A deep learning framework for precipitation forecasting with integrated large-scale climate drivers," *Water*, vol. 16, no. 22, Art. no. 3194, 2024.
- [35] "Predicting rainfall using machine learning, deep learning, and time series models across an altitudinal gradient in the North-Western Himalayas," *Scientific Reports*, 2024.
- [36] J. Fan et al., "Network-based approach and climate change benefits for forecasting the amount of Indian monsoon rainfall," *Journal of Climate*, vol. 35, no. 3, 2022.
- [37] S. Wang et al., "Enhancing precipitation estimation accuracy: An evaluation of traditional and machine learning approaches in rainfall predictions," *Journal of Atmospheric and Solar-Terrestrial Physics*, vol. 255, Art. no. 106175, 2024.
- [38] M. G. Chai et al., "Assessing rainfall prediction models: Exploring the advantages of machine learning and remote sensing approaches," *Alexandria Engineering Journal*, 2024.
- [39] "Leveraging machine learning for accurate precipitation forecasting," *Procedia Computer Science*, vol. 259, pp. 1523–1532, 2025.
- [40] "A systematic review of machine-learning-based rainfall forecasting," *Jurnal Teknologi*, 2026.
- [41] "Potential of artificial intelligence-based techniques for rainfall forecasting in Thailand: A comprehensive review," *Water*, vol. 15, no. 16, Art. no. 2979, 2023.
- [42] D. A. Ndaumanu and R. Irviandi, "Utilizing machine learning and deep learning techniques for forecasting rainfall and weather: A review," *Journal of Computation Physics and Earth Science*, vol. 2, no. 2, 2022, doi: 10.53842/kzexvv23.