

DAFTAR PUSTAKA

- [1] D. Setiawan, “Analisis curah hujan di Indonesia untuk memetakan daerah potensi banjir dan tanah longsor dengan metode Cluster Fuzzy C-Means dan Singular Value Decomposition (SVD),” *Engineering, Mathematics and Computer Science (EMACS) Journal*, vol. 3, no. 3, pp. 115–120, Oct. 2021, doi: 10.21512/emacsjournal.v3i3.7428.
- [2] K. F. Nugraha Isnoor, D. Astuti, and R. A. Pradana, “Buletin meteorologi edisi februari 2024,” *Buletin Meteorologi*, Feb. 2024.
- [3] K. F. Nugraha Isnoor, A. B. Putra, and M. A. Firmantari, “Analisis kenyamanan termal berdasarkan temperature humidity index dan pengaruhnya terhadap curah hujan di Kota Tanjungpinang,” *Buletin GAW Bariri (BGB)*, vol. 2, no. 1, 2021.
- [4] M. Azizah, A. Subiyanto, S. Triutomo, and D. Wahyuni, “Pengaruh perubahan iklim terhadap bencana hidrometeorologi di Kecamatan Cisarua - Kabupaten Bogor,” *PENDIPA Journal of Science Education*, vol. 6, no. 2, pp. 541–546, Jun. 2022, doi: 10.33369/pendipa.6.2.541-546.
- [5] N. A. Prakoso Indaryono, “Analisa perbandingan algoritma Random Forest dan Naïve Bayes untuk klasifikasi curah hujan berdasarkan iklim di Indonesia,” *JIPi (Jurnal Ilmiah Penelitian dan Pembelajaran Informatika)*, vol. 9, no. 1, pp. 158–167, Feb. 2024, doi: 10.29100/jipi.v9i1.4421.
- [6] S. Anggriyani, M. Manuputty, A. Lewaherilla, and L. Bakarbesy, “Prediksi curah hujan di Kota Tual dengan menggunakan metode backpropagation,” *PARAMETER: Jurnal Matematika, Statistika dan Terapannya*, vol. 3, no. 01, pp. 01–11, Jan. 2024, doi: 10.30598/parameterv3i01pp01-11.
- [7] M. Q. Andiyantama, I. Zahira, and A. Irawan, “Prediksi energi listrik kincir angin berdasarkan data kecepatan angin menggunakan LSTM,” *JITCE (Journal of Information Technology and Computer Engineering)*, vol. 5, no. 01, pp. 1–7, Mar. 2021, doi: 10.25077/jitce.5.01.1-7.2021.
- [8] M. A. Syifa, D. Retno, and S. Saputro, “Stance detection dengan Algoritme Gated Recurrent Unit (GRU),” Aug. 2023.
- [9] M. Pujara and N. Paudel, “Rainfall prediction using Long Short-Term Memory and Gated Recurrent Unit with various meteorological parameters,”

Nepalese Journal of Statistics, vol. 8, pp. 47–60, Dec. 2024, doi: 10.3126/njs.v8i1.73165.

- [10] I. Wayan and A. Suranata, “Pengembangan model prediksi curah hujan di Kota Denpasar menggunakan metode LSTM dan GRU,” *Jurnal Sistem dan Informatika (JSI)*, 2023.
- [11] D. Supriatna and S. Anggai, “Analisis prediksi curah hujan di Kota Tangerang menggunakan metode LSTM dan GRU,” *Jurnal Pustaka AI*, vol. 5, no. 1, 2025, doi: 10.55382/jurnalpustakaai.v5i2.1068.
- [12] F. Raaihatul Mashfia, S. Astutik, and E. Sumarminingsih, “Hyperparameter optimization approach in GRU model: A case study of rainfall prediction in DKI Jakarta,” *CAUCHY: Jurnal Matematika Murni dan Aplikasi*, vol. 10, no. 1, pp. 389–402, 2025, doi: 10.18860/ca.v10i1.32277.
- [13] A. A. Nugroho and M. Haris, “Analisis efektivitas teknik imputasi pada LSTM untuk meningkatkan kualitas data pada peramalan curah hujan,” 2024. Accessed: Oct. 26, 2025. [Online]. Available: <http://e-journal.stmiklombok.ac.id/index.php/jireISSN.2620-6900>
- [14] P. Sugiartawan and S. Gusprio Santoso, “Multivariate forecasting curah hujan menggunakan algoritma LSTM Di Kota Denpasar,” Aug. 2022.
- [15] N. M. M. C. Devi, I. P. A. Bayupati, and N. K. A. Wirdiani, “Prediksi curah hujan dasarian dengan metode Vanilla RNN dan LSTM untuk menentukan awal musim hujan dan kemarau,” *JEPI (Jurnal Edukasi dan Penelitian Informatika)*, vol. 8, no. 3, Dec. 2022.
- [16] Y. Sari *et al.*, “Optimizing the GRU-LSTM Hybrid Model for air temperature prediction in degraded wetlands and climate change implications,” 2025. [Online]. Available: www.ijacsa.thesai.org
- [17] M. S. Islam and E. Hossain, “Foreign exchange currency rate prediction using a GRU-LSTM hybrid network,” *Soft Computing Letters*, vol. 3, p. 100009, Dec. 2021, doi: 10.1016/j.socl.2020.100009.
- [18] N. Zafar, I. U. Haq, J. U. R. Chughtai, and O. Shafiq, “Applying Hybrid LSTM-GRU Model based on heterogeneous data sources for traffic speed prediction in Urban Areas,” *Sensors*, vol. 22, no. 9, May 2022, doi: 10.3390/s22093348.

- [19] Nurfalinda, M. Al Fiani, and M. R. Rathomi, "View of maximum temperature prediction in Tanjungpinang City using the CNN-LSTM model," *KOMPUTA: Jurnal Ilmiah Komputer dan Informatika*, vol. 14, no. 1, Apr. 2025.
- [20] I. R. Widiyari and R. Efendi, "Utilizing LSTM-GRU for IOT-based water level prediction using multi-variable rainfall time series data," *Informatics*, vol. 11, no. 4, Dec. 2024, doi: 10.3390/informatics11040073.
- [21] A. S. Girsang and Stanley, "Hybrid LSTM and GRU for Cryptocurrency price forecasting based on social network sentiment analysis using FinBERT," *IEEE Access*, vol. 11, pp. 120530–120540, 2023, doi: 10.1109/ACCESS.2023.3324535.
- [22] R. Saputra, K. Ismail, and D. Apdillah, "An examination of climate change phenomena in coastal areas and small islands (case study: Mapur Island, Bintan Regency)," *Media Ilmiah Teknik Lingkungan*, vol. 10, no. 2, pp. 58–74, Sep. 2025, doi: 10.33084/mitl.v10i2.10115.
- [23] F. Mabrurroh and A. Wiyanto, "Analisis fenomena perubahan iklim terhadap curah hujan ekstrim," 2023.
- [24] A. Herdhyanti, L. Muflikhah, and I. Cholissodin, "Prediksi curah hujan dengan empat parameter menggunakan Backpropagation (Studi Kasus: Stasiun Meteorologi Ahmad Yani)," 2022. [Online]. Available: <http://j-ptiik.ub.ac.id>
- [25] M. A. Fatnur, Achmad Abu Bakar, Muhammad Irham, and Dina Arbiyah, "The process of rainfall from the perspective of tafsir ilmi by the Kemenag RI and Science," *ARRUS Journal of Social Sciences and Humanities*, vol. 5, no. 1, pp. 828–836, Jan. 2025, doi: 10.35877/soshum3477.
- [26] N. K. Khairunisa and P. Hendikawati, "Long Short-Term Memory and Gated Recurrent Unit Modeling for Stock Price Forecasting," *Jurnal Matematika, Statistika dan Komputasi*, vol. 21, no. 1, pp. 321–333, 2024, doi: 10.20956/j.v21i1.35930.
- [27] P. D. Quang, N. H. Duy, P. Q. Khoai, and B. D. Duong, "Integrating moving average indicators with long short-term memory model in bitcoin price

forecasting,” *Journal of Applied Data Sciences*, vol. 6, no. 3, pp. 1850–1864, Sep. 2025, doi: 10.47738/jads.v6i3.766.

- [28] I. Permana and F. N. S. Salisah, “Pengaruh Normalisasi Data Terhadap Performa Hasil Klasifikasi Algoritma Backpropagation,” *Indonesian Journal of Informatic Research and Software Engineering (IJIRSE)*, vol. 2, no. 1, pp. 67–72, 2022, doi: 10.57152/ijirse.v2i1.311.
- [29] K. Risky, P. Irawan, and T. Sukmono, “Perencanaan jumlah produksi (Veneer) PT. XYZ,” 2021.
- [30] A. Adnan Rusdy, Purnawansyaha, and Hermana, “Penerapan metode regresi linear pada prediksi penawaran dan permintaan obat studi kasus aplikasi point of sales,” vol. 3, no. 2, pp. 121–126, 2022.

