

BIBLIOGRAPHY

- [1] Kementerian Pertanian Republik Indonesia, “Outlook Komoditas Peternakan: Telur Ayam Ras Petelur.” Jakarta, 2023.
- [2] S. Amalia, A. Dhini, and Zulkarnain, “Indonesia’s Food Commodity Price Forecasting using Recurrent Neural Networks,” in *2022 International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS)*, Kochi, India: IEEE, Jun. 2022, pp. 1–6. doi: 10.1109/IC3SIS54991.2022.9885249.
- [3] C. T. Utari, M. T. A. P. Sembiring, and M. H. R. Z. Siregar, “Analisis Komparasi Algoritma ARIMA dan LSTM pada Prediksi Harga Cabai Merah Keriting Harian,” *Build. Inform. Technol. Sci. BITS*, vol. 7, no. 3, pp. 1932–1942, Dec. 2025, doi: 10.47065/bits.v7i3.8784.
- [4] S. Hochreiter and J. Schmidhuber, “Long Short-Term Memory,” *Neural Comput.*, vol. 9, pp. 1735–1780, Nov. 1997, doi: 10.1162/neco.1997.9.8.1735.
- [5] K. Cho, C. Gulcehre, J. Chung, and Y. Bengio, “Empirical Evaluation of Gated Recurrent Neural Networks on Sequence Modeling,” Dec. 11, 2014, *arXiv*: arXiv:1412.3555. doi: 10.48550/arXiv.1412.3555.
- [6] Y. Zhang, R. Wu, S. M. Dascalu, and F. C. Harris, “A novel extreme adaptive GRU for multivariate time series forecasting,” *Sci. Rep.*, vol. 14, no. 1, p. 2991, Feb. 2024, doi: 10.1038/s41598-024-53460-y.
- [7] J. S. Bergstra, R. Bardenet, Y. Bengio, and B. Kégl, “Algorithms for Hyper-Parameter Optimization,” in *Advances in Neural Information Processing Systems*, Curran Associates, Inc., 2011. Accessed: May 25, 2026. [Online]. Available: https://papers.nips.cc/paper_files/paper/2011/hash/86e8f7ab32cfd12577bc2619bc635690-Abstract.html
- [8] T. Akiba, S. Sano, T. Yanase, T. Ohta, and M. Koyama, “Optuna: A Next-generation Hyperparameter Optimization Framework,” Jul. 25, 2019, *arXiv*: arXiv:1907.10902. doi: 10.48550/arXiv.1907.10902.
- [9] M. Oni, M. D. Lauro, A. Winata, and T. Handhayani, “Analysis And Forecasting of Foodstuffs Prices in Bandung Using Gated Recurrent Unit,” *J. Esensi Infokom J. Esensi Sist. Inf. Dan Sist. Komput.*, vol. 7, no. 2, pp. 15–21, Oct. 2023, doi: 10.55886/infokom.v7i2.651.
- [10] Y. H. Gu, D. Jin, H. Yin, R. Zheng, X. Piao, and S. J. Yoo, “Forecasting Agricultural Commodity Prices Using Dual Input Attention LSTM,” *Agriculture*, vol. 12, no. 2, p. 256, Feb. 2022, doi: 10.3390/agriculture12020256.
- [11] C. Zhang, N. N. A. Sjarif, and R. Ibrahim, “Article Title: Deep learning models for price forecasting of financial time series: A review of recent advancements: 2020-2022 Authors:”.
- [12] I. L. Hakim, M. Sanglise, and C. D. Suhendra, “Analisis Peramalan Harga Telur Ayam Ras Dengan Menggunakan Metode SARIMA,” *J. MEDIA Inform. BUDIDARMA*, vol. 8, no. 2, p. 966, Apr. 2024, doi: 10.30865/mib.v8i2.7610.

- [13] R. L. Manogna, V. Dharmaji, and S. Sarang, “Enhancing agricultural commodity price forecasting with deep learning,” *Sci. Rep.*, vol. 15, no. 1, p. 20903, Jul. 2025, doi: 10.1038/s41598-025-05103-z.
- [14] G. H. H. Nayak *et al.*, “Exogenous variable driven deep learning models for improved price forecasting of TOP crops in India,” *Sci. Rep.*, vol. 14, no. 1, p. 17203, Jul. 2024, doi: 10.1038/s41598-024-68040-3.
- [15] G. A. Tardini and . Suharjito, “Selection of Modelling for Forecasting Crude Palm Oil Prices Using Deep Learning (GRU & LSTM),” *Emerg. Sci. J.*, vol. 8, no. 3, pp. 875–898, Jun. 2024, doi: 10.28991/ESJ-2024-08-03-05.
- [16] B. Dinda, “Gated recurrent neural network with TPE Bayesian optimization for enhancing stock index prediction accuracy,” vol. abs/2406.02604, 2024, [Online]. Available: <https://api.semanticscholar.org/CorpusID:270258135>
- [17] Z. Wulandari and I. I. Arief, “Review: Tepung Telur Ayam: Nilai Gizi, Sifat Fungsional dan Manfaat,” *J. Ilmu Produksi Dan Teknol. Has. Peternak.*, vol. 10, no. 2, pp. 62–68, Jun. 2022, doi: 10.29244/jipthp.10.2.62-68.
- [18] R. Amalia, M. Mardiyanti, and N. Nadir, “ANALISIS FLUKTUASI DAN TREND HARGA KOMODITAS TELUR AYAM RAS DI KABUPATEN BULUKUMBA,” *J. Sains Agribisnis*, vol. 3, no. 1, pp. 21–28, Jun. 2023, doi: 10.55678/jsa.v3i1.855.
- [19] A. Novita *et al.*, “4. Haugh Unit Value, Yolk Index And Albumin Index Of Eggs In Farms, Distributors And Retails In Banda Aceh,” *J. Med. Vet.*, vol. 15, no. 1, Oct. 2021, doi: 10.21157/j.med.vet..v15i1.22189.
- [20] N. Ilham and N. Saptana, “Fluktuasi Harga Telur Ayam Ras dan Faktor Penyebabnya,” *Anal. Kebijak. Pertan.*, vol. 17, no. 1, pp. 27–38, Jan. 2023, doi: 10.21082/akp.v17n1.2019.27-38.
- [21] M. A. Marzuqi, S. I. Hidayat, and R. F. Setiawan, “Analisis Volatilitas Harga Komoditas Telur Ayam Ras di Provinsi Jawa Timur,” *J. AGRICA*, vol. 17, no. 2, pp. 152–161, Oct. 2024, doi: 10.31289/agrica.v17i2.11865.
- [22] L. Wang, J. Feng, X. Sui, X. Chu, and W. Mu, “Agricultural product price forecasting methods: research advances and trend,” *Br. Food J.*, vol. 122, no. 7, pp. 2121–2138, Jun. 2020, doi: 10.1108/BFJ-09-2019-0683.
- [23] S. Adiyono and S. Novianto, “Prediksi Komoditas Pangan Pada Masa Pandemi Dengan Metode Forecasting dan Moving Average,” *J. Nas. Teknol. Dan Sist. Inf.*, vol. 7, no. 3, pp. 155–163, Jan. 2022, doi: 10.25077/TEKNOSI.v7i3.2021.155-163.
- [24] E. I. Sihombing, C. D. Suhendra, and L. F. Marini, “Analisis Data Time Series Untuk Prediksi Harga Komoditas Pangan Menggunakan Autoregressive Integrated Moving Average,” *KLIK Kaji. Ilm. Inform. Dan Komput.*, vol. 4, no. 6, pp. 2711–2720, Jun. 2024, doi: <https://djournals.com/klik/article/view/1863>.
- [25] C. Zhang, N. N. A. Sjarif, and R. Ibrahim, “Deep learning models for price forecasting of financial time series: A review of recent advancements: 2020–2022,” *WIREs Data Min. Knowl. Discov.*, vol. 14, no. 1, p. e1519, Jan. 2024, doi: 10.1002/widm.1519.
- [26] I. D. Mienye, T. G. Swart, and G. Obaido, “Recurrent Neural Networks: A Comprehensive Review of Architectures, Variants, and Applications,” *Information*, vol. 15, no. 9, p. 517, Sep. 2024, doi: 10.3390/info15090517.

- [27] S. Watanabe, “Tree-Structured Parzen Estimator: Understanding Its Algorithm Components and Their Roles for Better Empirical Performance,” Sep. 30, 2025, *arXiv*: arXiv:2304.11127. doi: 10.48550/arXiv.2304.11127.
- [28] D. M. Teixeira and R. S. Barbosa, “Stock Price Prediction in the Financial Market Using Machine Learning Models,” *Computation*, vol. 13, no. 1, p. 3, Dec. 2024, doi: 10.3390/computation13010003.
- [29] Streamlit Inc., “Streamlit • A faster way to build and share data apps,” Streamlit Documentation. Accessed: Jun. 21, 2026. [Online]. Available: <https://streamlit.io/>