

## DAFTAR PUSTAKA

- Adamu, Y. A. (2024). Implementation of Recurrent Neural Network Gated Recurrent Unit (GRU) Model for Predicting Top-Tier Bitcoin. *Jurnal Galaksi*, 1(3), 153–168. <https://doi.org/10.70103/galaksi.v1i3.41>
- Ahmad, M., Qamar, H., Rehman, A. A., & Khan, R. (2025). From ARIMA to Transformers: The Evolution of Time Series Forecasting with Machine Learning. *Journal of Asian Development Studies*, 14(3), 219–233. <https://doi.org/10.62345/jads.2025.14.3.18>
- ALDI, F. A. R., & Nathasia, N. D. (2025). Prediksi Harga Dan Kinerja Aset Bitcoin Menggunakan Algoritma Long Short-Term Memory. *Jurnal Fasilkom*, 15(1), 68–76. <https://doi.org/10.37859/jf.v15i1.8902>
- Badar, W., Ramzan, S., Raza, A., Fitriyani, N. L., Syafrudin, M., & Lee, S. W. (2025). Enhanced Interpretable Forecasting of Cryptocurrency Prices Using Autoencoder Features and a Hybrid CNN-LSTM Model. *Mathematics*, 13(12), 1–22. <https://doi.org/10.3390/math13121908>
- Bouteska, A., Abedin, M. Z., Hajek, P., & Yuan, K. (2024). Cryptocurrency price forecasting – A comparative analysis of ensemble learning and deep learning methods. *International Review of Financial Analysis*, 92(December 2022), 103055. <https://doi.org/10.1016/j.irfa.2023.103055>
- Chohan, U. W. (2017). A History of Bitcoin. *SSRN Electronic Journal*, september 2017. <https://doi.org/10.2139/ssrn.3047875>
- Dang, Y. (2025). Bitcoin Price Prediction Using a Deep Learning-based Hybrid Model with Sentiment Analysis and Attention Mechanism. *Applied and Computational Engineering*, 154(1), 145–151. <https://doi.org/10.54254/2755-2721/2025.tj23132>
- Elamir, E. A. H. (2023). Assessing Homoscedasticity Graphically: Levene–Brown–Forsythe Approaches. *REVSTAT-Statistical Journal*, 21(3), 389–404. <https://doi.org/10.57805/revstat.v21i3.411>

- Elkins, M. (2024). Research Note: Interpreting confidence intervals. *Journal of Physiotherapy*, 70(4), 319–323. <https://doi.org/10.1016/j.jphys.2024.08.010>
- Gridin, I. (2022). Hyperparameter Optimization. In *Automated Deep Learning Using Neural Network Intelligence*. [https://doi.org/10.1007/978-1-4842-8149-9\\_2](https://doi.org/10.1007/978-1-4842-8149-9_2)
- Ilham Caniago, A., Kaswidjanti, W., & Pembangunan Nasional Veteran Yogyakarta, U. (2021). Recurrent Neural Network dengan Gate Recurrent Unit Untuk Prediksi Harga Saham. *Jurnal Informatika Dan Teknologi Informasi*, 18(3), 345–360. <https://doi.org/10.31515/telematika.v18i3.6650>
- K. Djunaidi, M. Y. D. Sudirman, A. R. A. and R. F. N. (2025). Bitcoin Price Forecasting Using Long Short-Term Memory Model with Parameter Optimization. *International Conference on Advanced Technologies in Energy and Informatic (ICATEI)*, 3–8. <https://doi.org/https://doi.org/10.1109/ICATEI67676.2025>
- Kamath, A., Poojari, S., & Varsha, K. (2025). Assessing the robustness of normality tests under varying skewness and kurtosis: a practical checklist for public health researchers. *BMC Medical Research Methodology*, 25(1). <https://doi.org/10.1186/s12874-025-02641-y>
- Karmila, S., & Rezki, R. (2020). *PENERAPAN FUZZY C-MEANS PADA KLASIFIKASI KARAKTERISTIK PENGUNJUNG WEBSITE PMB STT – PLN UNTUK*. 14(April), 8–17.
- Kervanci, I. S., Akay, M. F., & Özceylan, E. (2024). Bitcoin Price Prediction Using Lstm, Gru and Hybrid Lstm-Gru With Bayesian Optimization, Random Search, and Grid Search for the Next Days. *Journal of Industrial and Management Optimization*, 20(2), 570–588. <https://doi.org/10.3934/jimo.2023091>
- Liu, X., & Wang, W. (2024). Deep Time Series Forecasting Models: A Comprehensive Survey. *Mathematics*, 12(10). <https://doi.org/10.3390/math12101504>
- Omole, O., & Enke, D. (2024). Deep learning for Bitcoin price direction prediction: models and trading strategies empirically compared. *Financial Innovation*, 10(1), 1–26. <https://doi.org/10.1186/s40854-024-00643-1>

- Priadinata, I. P. B., Sudipa, I. G. I., Meinarni, N. P. S., Radhitya, I. M. L., & Supartha, I. K. D. G. (2025). Comparative Analysis of LSTM, GRU, and Bi-LSTM Deep Learning Models for Time Series Cryptocurrency Price Forecasting. *Sinkron*, 9(3), 1024–1035. <https://doi.org/10.33395/sinkron.v9i3.14795>
- Puji Catur Siswipratini, Ahmad Saputra Fadiatora, H. S. (2023). *JURNAL DOSEN CRISP DM.pdf*. <https://doi.org/https://doi.org/10/35870/jimik.v4i1.167>
- Ramadhan, M. F., Lestari, D., & Khaira, U. (2024). Prediksi Harga Bitcoin Menggunakan Metode Long Short Term Memory. *Jurnal Pepadun*, 5(2), 104–112. <https://doi.org/10.23960/pepadun.v5i2.193>
- Rifai, M. F., Jatnika, H., & Valentino, B. (2019). Penerapan Algoritma Naïve Bayes Pada Sistem Prediksi Tingkat Kelulusan Peserta Sertifikasi Microsoft Office Specialist (MOS). 12(2), 131–144.
- Satria Andromeda, R., & Anisa Sri Winarsih, N. (2025). Sistemasi: Jurnal Sistem Informasi Perbandingan Kinerja Metode LSTM dan GRU dalam Prediksi Harga Close Cryptocurrency Performance Comparison of LSTM and GRU Methods in Predicting Cryptocurrency Closing Prices. *Sistemasi: Jurnal Sistem Informasi*, 14(1), 366–379. <http://sistemasi.ftik.unisi.ac.id>
- Seabe, P. L., Moutsinga, C. R. B., & Pindza, E. (2023). Forecasting Cryptocurrency Prices Using LSTM, GRU, and Bi-Directional LSTM: A Deep Learning Approach. *Fractal and Fractional*, 7(2), 1–18. <https://doi.org/10.3390/fractalfract7020203>
- Seabe, P. L., Moutsinga, C. R. B., & Pindza, E. (2025). Sentiment-driven cryptocurrency forecasting: analyzing LSTM, GRU, Bi-LSTM, and temporal attention model (TAM). *Social Network Analysis and Mining*, 15(1). <https://doi.org/10.1007/s13278-025-01463-6>
- Usmadi, U. (2020). Pengujian Persyaratan Analisis (Uji Homogenitas Dan Uji Normalitas). *Inovasi Pendidikan*, 7(1), 50–62. <https://doi.org/10.31869/ip.v7i1.2281>
- Wen, X., & Li, W. (2023). Time Series Prediction Based on LSTM-Attention-LSTM Model. *IEEE Access*, 11(May), 48322–48331.

<https://doi.org/10.1109/ACCESS.2023.3276628>

- Widiasari, I. R., & Efendi, R. (2024). Utilizing LSTM-GRU for IOT-Based Water Level Prediction Using Multi-Variable Rainfall Time Series Data. *Informatics*, *11*(4). <https://doi.org/10.3390/informatics11040073>
- Wijaya, A. K., Gaib, A. F., Mahayudha, I. G. N. B. F., Andini, N., & Zanestri, T. F. (2025). Optimising Bitcoin Price Forecasting Using Lstm, Gru, Prophet, Var, And Es Multi-Model Approaches. *Jurnal Teknik Informatika (Jutif)*, *6*(3), 1095–1112. <https://doi.org/10.52436/1.jutif.2025.6.3.4078>
- Yu, T., & Zhu, H. (2020). *Hyper-Parameter Optimization: A Review of Algorithms and Applications*. 1–56. <http://arxiv.org/abs/2003.05689>
- Zhang, X., Kang, Y., Li, C., Wang, W., & Wang, K. (2025). LSTM-conformal forecasting-based bitcoin forecasting method for enhancing reliability. *PLoS ONE*, *20*(5 May), 1–23. <https://doi.org/10.1371/journal.pone.0319008>
- Zhang, Y., Wu, R., Dascalu, S. M., & Harris, F. C. (2024). A novel extreme adaptive GRU for multivariate time series forecasting. *Scientific Reports*, *14*(1), 1–10. <https://doi.org/10.1038/s41598-024-53460-y>