

## Daftar Pustaka

- [1] E. Bouri, A. Jain, P. C. Biswal, and D. Roubaud, "Cointegration and nonlinear causality amongst gold, oil, and the Indian stock market: Evidence from implied volatility indices," *Resour. Policy*, vol. 52, no. March, pp. 201–206, 2017, <https://www.doi.org/10.1016/j.resourpol.2017.03.003>.
- [2] P. K. Mishra, J. R. Das, and S. K. Mishra, "Gold Price Volatility and Stock Market Returns in India," *Am. J. Sci. Res. ISSN*, vol. 1450, no. 9, pp. 47–55, 2010.
- [3] D. C. North and R. P. Thomas, *The Rise of the Western World*. Cambridge University Press, 1973.
- [4] [I. E. Livieris, E. Pintelas, and P. Pintelas, "A CNN-LSTM model for gold price time-series forecasting," \*Neural Comput. Appl.\*, vol. 32, 2020.](#)
- [5] N. A. Zainal and Z. Mustaffa, "A literature review on gold price predictive techniques," *2015 4th Int. Conf. Softw. Eng. Comput. Syst. ICSECS 2015 Virtuous Softw. Solut. Big Data*, pp. 39–44, 2015, <https://www.doi.org/10.1109/ICSECS.2015.7333120>.
- [6] X. Yang, "The Prediction of Gold Price Using ARIMA Model," *Adv. Soc. Sci. Educ. Humanit. Res.*, vol. 196, no. Ssphe 2018, pp. 273–276, 2019, <https://www.doi.org/10.2991/ssphe-18.2019.66>.
- [7] Z. Xie, X. Lin, Y. Zhong, and Q. Chen, "Research on gold etf forecasting based on lstm," *Proc. - 2019 IEEE Intl Conf Parallel Distrib. Process. with Appl. Big Data Cloud Comput. Sustain. Comput. Commun. Soc. Comput. Networking, ISPA/BDCloud/SustainCom/SocialCom 2019*, pp. 1346–1351, 2019, <https://www.doi.org/10.1109/ISPA-BDCloud-SustainCom-SocialCom48970.2019.00193>.
- [8] G. DeepikaM, G. Nambiar, M. Rajkumar, and A. Vishwavidhyapeetham, "Forecasting Price and Analysing Factors Influencing The Price of Gold Using ARIMA Model and Multiple Regression Analysis," vol. 2, no. 11, 2012.
- [9] A. D. Dubey, "Gold price prediction using support vector regression and ANFIS models," *2016 Int. Conf. Comput. Commun. Informatics, ICCCI 2016*, 2016, <https://www.doi.org/10.1109/ICCCI.2016.7479929>.
- [10] W. Zou and Y. Xia, "Back propagation bidirectional extreme learning machine for traffic flow time series prediction," *Neural Comput. Appl.*, vol. 31, no. 11, pp. 7401–7414, 2019, <https://www.doi.org/10.1007/s00521-018-3578-y>.

- [11] J. Zheng, X. Fu, and G. Zhang, "Research on exchange rate forecasting based on deep belief network," *Neural Comput. Appl.*, vol. 31, pp. 573–582, 2019, <https://www.doi.org/10.1007/s00521-017-3039-z>.
- [12] H. H. Zahrah, S. Sa'adah, and R. Rismala, "Foreign Exchange Rate Prediction Using Long-Short Term Memory: A Case Study in COVID-19 Pandemic," vol. 6, no. 2, pp. 94–105, 2021, <https://www.doi.org/10.21108/IJOICT.2020.62.538>.
- [13] J. Wong, T. Manderson, M. Abrahamowicz, D. L. Buckeridge, and R. Tamblyn, "Can Hyperparameter Tuning Improve the Performance of a Super Learner?: A Case Study," *Epidemiology*, vol. 30, no. 4, pp. 521–531, 2019, <https://www.doi.org/10.1097/EDE.0000000000001027>.
- [14] N. Lavesson and P. Davidsson, "Quantifying the impact of learning algorithm parameter tuning," *Proc. Natl. Conf. Artif. Intell.*, vol. 1, no. 1, pp. 395–400, 2006.
- [15] K. Chen, Y. Zhou, and F. Dai, "A LSTM-based method for stock returns prediction: A case study of China stock market," *Proc. - 2015 IEEE Int. Conf. Big Data, IEEE Big Data 2015*, pp. 2823–2824, 2015, <https://www.doi.org/10.1109/BigData.2015.7364089>.
- [16] D. A. Nasution, H. H. Khotimah, and N. Chamidah, "Perbandingan Normalisasi Data untuk Klasifikasi Wine Menggunakan Algoritma K-NN," *Comput. Eng. Sci. Syst. J.*, vol. 4, no. 1, p. 78, 2019, <https://www.doi.org/10.24114/cess.v4i1.11458>.
- [17] Y. Lecun, Y. Bengio, and G. Hinton, "Deep learning," *Nature*, vol. 521, no. 7553, pp. 436–444, 2015, <https://www.doi.org/10.1038/nature14539>.
- [18] K. O'Shea and R. Nash, "An Introduction to Convolutional Neural Networks," pp. 1–11, 2015, [Online]. Available: <http://arxiv.org/abs/1511.08458>.
- [19] Suyanto, *Machine Learning Tingkat Dasar dan Lanjut*. Bandung: Informatika, 2018.
- [20] Suyanto, *Modernisasi Machine Learning untuk Big Data*. Bandung: Informatika, 2019.
- [21] Z. He, J. Zhou, H. N. Dai, and H. Wang, "Gold price forecast based on LSTM-CNN model," *Proc. - IEEE 17th Int. Conf. Dependable, Auton. Secur. Comput. IEEE 17th Int. Conf. Pervasive Intell. Comput. IEEE 5th Int. Conf. Cloud Big Data Comput. 4th Cyber Sci.*, pp. 1046–1053, 2019, <https://www.doi.org/10.1109/DASC/PiCom/CBDCCom/CyberSciTech.2019.00188>.
- [22] L. Seymour, P. J. Brockwell, and R. A. Davis, *Introduction to Time Series and Forecasting.*, vol. 92, no. 440. 1997.
- [23] S. Hochreiter and J. Schmidhuber, "Long Short-Term Memory," *Neural Comput.*, vol. 9, no. 8, pp. 1735–1780, Nov. 1997, <https://www.doi.org/10.1162/neco.1997.9.8.1735>.
- [24] R. Dey and F. M. Salemt, "Gate-variants of Gated Recurrent Unit (GRU) neural

- networks,” *Midwest Symp. Circuits Syst.*, vol. 2017-Augus, no. 2, pp. 1597–1600, 2017, <https://www.doi.org/10.1109/MWSCAS.2017.8053243>.
- [25] Z. Chang, Y. Zhang, and W. Chen, “Effective Adam-Optimized LSTM Neural Network for Electricity Price Forecasting,” *Proc. IEEE Int. Conf. Softw. Eng. Serv. Sci. ICSESS*, vol. 2018-Novem, no. Figure 1, pp. 245–248, 2019, <https://www.doi.org/10.1109/ICSESS.2018.8663710>.
- [26] D. P. Kingma and J. L. Ba, “Adam: A method for stochastic optimization,” *3rd Int. Conf. Learn. Represent. ICLR 2015 - Conf. Track Proc.*, pp. 1–15, 2015.
- [27] T. Chai and R. R. Draxler, “Root mean square error (RMSE) or mean absolute error (MAE)? -Arguments against avoiding RMSE in the literature,” *Geosci. Model Dev.*, vol. 7, no. 3, pp. 1247–1250, 2014, <https://www.doi.org/10.5194/gmd-7-1247-2014>.