BIBLIOGRAPHY

[1] Mukarramah, M. Zulkarnain, and Arif Ramadhana, "Inflasi Dalam Pertumbuhan Ekonomi: Studi Empiris di Indonesia Periode 1991 - 2024," vol. 25, Jul. 2025, Accessed: Jan. 24, 2026. [Online]. Available: http://jurnal.umsu.ac.id/index.php/ekawan

[2] A. Binetti, F. Nuzzi, and S. Stantcheva, "People's understanding of inflation," *J. Monet. Econ.*, vol. 148, Nov. 2024, doi: 10.1016/j.jmoneco.2024.103652.

[3] S. M. Juhro and B. N. Iyke, "Forecasting Indonesian inflation within an inflation-targeting framework: Do large-scale models pay off?," *Buletin Ekonomi Moneter dan Perbankan/Monetary and banking economics bulletin*, vol. 22, no. 4, pp. 423-436, Feb. 2019, doi: 10.21098/bemp.v22i4.1235.

[4] K. R. A. Muslihin and B. N. Ruchjana, "Model Autoregressive Moving Average (ARMA) untuk Peramalan Tingkat Inflasi di Indonesia," *Limits: Journal of Mathematics and Its Applications*, vol. 20, no. 2, p. 209, Jul. 2023, doi: 10.12962/limits.v20i2.15098.

[5] S. S. Sharma, "Which variables predict Indonesia's inflation?," *Buletin Ekonomi Moneter dan Perbankan/Monetary and banking economics bulletin*, vol. 22, no. 1, pp. 87-101, 2019, doi: 10.21098/bemp.v22i1.1038.

[6] C. Yang and S. Guo, "Inflation prediction method based on deep learning," *Comput. Intell. Neurosci.*, vol. 2021, 2021, doi: 10.1155/2021/1071145.

[7] Badan Pusat Satistik Indonesia, "Tingkat Inflasi Harga Konsumen Nasional Tahunan (Y-on-Y) 1 (2022=100) - Tabel Statistik," https://www.bps.go.id/id/statistics-table/1/OTE1IzE=/annually-national-consumer-price-inflation-rate--y-on-y--sup1-sup--2022-100-.html .

[8] Bank Indonesia, "Analisis Inflasi Oktober 2025," Nov. 2025. Accessed: Jan. 24, 2026. [Online]. Available:

https://www.bi.go.id/id/publikasi/laporan/Documents/Analisis-Inflasi-Oktober-2025.pdf

[9] B. Novianda, “Forecasting Inflation in Indonesia Using ARIMAX : The Role of Money Supply and Exchange Rate,” vol. 13, no. 02, 2025, doi: 10.33019/equity.v13i2.370.

[10] T. Zhou, “Improved Sales Forecasting using Trend and Seasonality Decomposition with LightGBM,” in *2023 6th International Conference on Artificial Intelligence and Big Data (ICAIBD)*, 2023, pp. 656-661. doi: 10.1109/ICAIBD57115.2023.10206380.

[11] R.-S. Constantin, A. A. Davidescu, and E. M. Manta, “Time Series Forecasting with LightGBM under Data Scarcity: An Application to Romania’s Inland Gas Consumption,” *Proceedings of the International Conference on Business Excellence*, vol. 19, no. 1, pp. 1518-1531, Jul. 2025, doi: 10.2478/picbe-2025-0118.

[12] C. Ivașcu, “Can Machine Learning Models Predict Inflation?,” *Proceedings of the International Conference on Business Excellence*, vol. 17, no. 1, pp. 1748-1756, Jul. 2023, doi: 10.2478/picbe-2023-0155.

[13] M. M. Al Haromainy, D. A. Prasetya, and A. P. Sari, “Improving Performance of RNN-Based Models With Genetic Algorithm Optimization For Time Series Data,” *TIERS Information Technology Journal*, vol. 4, no. 1, pp. 16-24, Jun. 2023, doi: 10.38043/tiers.v4i1.4326.

[14] N. Fitriyati and M. Yunita Wijaya, “Forecasting Indonesian inflation using a hybrid ARIMA-ANFIS,” *Desimal: Jurnal Matematika*, vol. 5, pp. 289-304, 2022, doi: 10.24042/djm.

[15] F. A. Mohammad, A. M. Rizki, and A. N. Sihananto, “Peramalan Tingkat Inflasi di Indonesia Menggunakan Artificial Bee Colony dan XGBoost,” *Jurnal Informatika dan Teknik Elektro Terapan*, vol. 12, no. 3, Aug. 2024, doi: 10.23960/jitet.v12i3.4827.

[16] X. Zheng, J. Cai, and G. Zhang, “Stock Trend Prediction Based on ARIMA-LightGBM Hybrid Model,” in *2022 3rd Information Communication Technologies Conference (ICTC)*, 2022, pp. 227-231. doi: 10.1109/ICTC55111.2022.9778304.

[17] R. J. Wishnuwardana, M. B. Omar, H. B. Zabiri, M. Faqih, K. Bingi, and R. Ibrahim, “Optuna-LightGBM : An Optuna hyperparameter optimization framework for the determination of solvent components in acid gas removal unit using LightGBM,” *Clean. Eng. Technol.*, vol. 28, Sep. 2025, doi: 10.1016/j.clet.2025.101054.

[18] C. Yu *et al.*, “Gradient Boosting Decision Tree with LSTM for Investment Prediction,” May 2025, [Online]. Available: http://arxiv.org/abs/2505.23084

[19] N. Gregory. Mankiw, *Macroeconomics*. Worth Publishers, Incorporated, 2018.

[20] Bank Indonesia, “Inflasi,” https://www.bi.go.id/id/fungsi-utama/moneter/inflasi/Default.aspx.

[21] K. J. Fox, P. Levell, and M. O’Connell, “Inflation Measurement with High-Frequency Data,” *Journal of Business and Economic Statistics*, 2025, doi: 10.1080/07350015.2025.2537392.

[22] M. C. Dao, P. O. Gourinchas, D. Leigh, and P. Mishra, “Understanding the international rise and fall of inflation since 2020,” *J. Monet. Econ.*, vol. 148, Nov. 2024, doi: 10.1016/j.jmoneco.2024.103658.

[23] F. S. . Mishkin, *The economics of money, banking, and financial markets*. Pearson, 2013.

[24] Afrizal, “Analysis of Macroeconomic Variables on the Existence of Inflation in Indonesia Using the Vector Error Correction Model Approach,” *Jurnal Ekonomi Kuantitatif Terapan*, vol. 17, no. 1, pp. 9-35, Oct. 2025, doi: 10.24843/JEKT.2024.v17.i01.p02.

[25] M. Pisganidy and M. Awaluddin, “The Effect of Money Supply and Interest Rates on Inflation in Indonesia,” vol. 21, no. 1, pp. 105-110, 2025.

[26] I. Ulfatul, “The Analysis of Monetary Transmission Mechaniscm by Expectation Patterns in Influencing the Inflation Article Info,” *Economics Development Analysis Journal*, vol. 6, no. 4, 2017, [Online]. Available: http://journal.unnes.ac.id/sju/index.php/edaj

[27] D. N. Gujarati, “Dasar-dasar ekonometrika buku 2 edisi 5 / Damodar N. Gujarati, Dawn C. Porter,” 2012. [Online]. Available: https://api.semanticscholar.org/CorpusID:162442867

[28] N. Nachrowi and H. Usman, *Pendekatan Populer dan Praktis Ekonometrika Untuk Analisis Ekonomi dan Keuangan*. 2006.

[29] A. Widarjono, *Ekonometrika Pengantar dan Aplikasinya Disertai Panduan EViews*, 5th ed. UPP STIM YKPN, 2020.

[30] R. S. . Tsay, *Analysis of financial time series*. Wiley, 2010.

[31] W. W. S. . Wei, *Time series analysis : univariate and multivariate methods*. Pearson Addison Wesley, 2006.

[32] A. Sholihah, M. Hadijati, and Z. Widya Baskara, “Peramalan Curah Hujan Batukliang Utara dengan Model Autoregressive Integrated Moving Average with Exogenus Input (ARIMAX),” Dec. 2024. Accessed: Feb. 04, 2026. [Online]. Available: https://eprints.unram.ac.id/46979/

[33] D. A. Dickey and W. A. Fuller, “Likelihood Ratio Statistics for Autoregressive Time Series with a Unit Root,” *Econometrica*, vol. 49, no. 4, p. 1057, Jul. 1981, doi: 10.2307/1912517.

[34] Walter. Enders, *Applied econometric time series*. Wiley, 2015.

[35] Leonie, “Time Series: Interpreting ACF and PACF,” https://www.kaggle.com/code/iamleonie/time-series-interpreting-acf-and-pacf.

[36] R. J. . Hyndman and George. Athanasopoulos, *Forecasting : principles and practice*. OTexts, 2021.

[37] H. Akaike, “A new look at the statistical model identification,” *IEEE Trans. Automat. Contr.*, vol. 19, no. 6, pp. 716-723, Dec. 1974, doi: 10.1109/TAC.1974.1100705.

[38] G. Schwarz, “Estimating the Dimension of a Model,” *The Annals of Statistics*, vol. 6, no. 2, Mar. 1978, doi: 10.1214/aos/1176344136.

[39] G. E. P. . Box, G. M. . Jenkins, G. C. . Reinsel, and G. M. . Ljung, *Time series analysis : forecasting and control*. John Wiley & Sons, Inc., 2016.

[40] X. Zheng *et al.*, “Exploring the influence of environmental indicators and forecasting influenza incidence using ARIMAX models,” *Front. Public Health*, vol. 12, Sep. 2024, doi: 10.3389/fpubh.2024.1441240.

[41] C. Long, M. F. Marsani, H. Ma, and C. Ni, “Predicting daily water level with exogenous variables ARIMAX-MS-GARCH model,” *Journal of Water and Climate Change*, vol. 17, no. 2, pp. 74-93, Feb. 2026, doi: 10.2166/wcc.2025.772.

[42] D. M. Manurung, A. T. Damaliana, and D. A. Prasetya, “Application Of Hybrid ARIMAX-ANN In Forecasting The Price Of Chili Bird’s Eye,” *bit-Tech*, vol. 8, no. 2, pp. 1761-1770, Dec. 2025, doi: 10.32877/bt.v8i2.3091.

[43] G. Ke *et al.*, “LightGBM: A Highly Efficient Gradient Boosting Decision Tree.” [Online]. Available: https://github.com/Microsoft/LightGBM.

[44] A. Salsabila, A. P. Sari, and A. Junaidi, “Journal of Artificial Intelligence and Engineering Applications Predicting CO levels using LSTM and Rolling-Features,” 2025. [Online]. Available: https://ioinformatic.org/

[45] S. Dong, A. Khattak, I. Ullah, J. Zhou, and A. Hussain, “Predicting and Analyzing Road Traffic Injury Severity Using Boosting-Based Ensemble Learning Models with SHAPley Additive exPlanations,” *Int. J. Environ. Res. Public Health*, vol. 19, no. 5, p. 2925, Mar. 2022, doi: 10.3390/ijerph19052925.

[46] M. Gan, S. Pan, Y. Chen, C. Cheng, H. Pan, and X. Zhu, “Application of the machine learning lightgbm model to the prediction of the water levels of the

lower columbia river," *J. Mar. Sci. Eng.*, vol. 9, no. 5, May 2021, doi: 10.3390/jmse9050496.

[47] X. Yao, X. Fu, and C. Zong, "Short-Term Load Forecasting Method Based on Feature Preference Strategy and LightGBM-XGboost," *IEEE Access*, vol. 10, pp. 75257-75268, 2022, doi: 10.1109/ACCESS.2022.3192011.

[48] A. Salsabila, A. P. Sari, and A. Junaidi, "Predicting CO levels using LSTM and Rolling-Features," 2025. [Online]. Available: https://ioinformatic.org/

[49] R. Hasan, M. A. Kabir, R. A. Shuvro, and P. Das, "A Comparative Study on Forecasting of Retail Sales."

[50] D. Zhou, "LightGBM-Based Time Series Forecasting for CSI 300 Index: Integrating Technical Indicators and Recursive Prediction," in *Proceedings of the 2025 2nd International Conference on Digital Economy and Computer Science*, New York, NY, USA: ACM, Oct. 2025, pp. 309-314. doi: 10.1145/3785706.3785755.

[51] L. Yang and A. Shami, "On Hyperparameter Optimization of Machine Learning Algorithms: Theory and Practice," Oct. 2022, doi: 10.1016/j.neucom.2020.07.061.

[52] J. Bergstra, R. Bardenet, Y. Bengio, and B. Kégl, "Algorithms for Hyper-Parameter Optimization."

[53] T. Akiba, S. Sano, T. Yanase, T. Ohta, and M. Koyama, "Optuna: A Next-generation Hyperparameter Optimization Framework," Jul. 2019, [Online]. Available: http://arxiv.org/abs/1907.10902

[54] Wardalisah, "Peramalan Harga Saham Menggunakan Metode Light Gradient Boosting Machine," Thesis, Universitas Hasanuddin, Makasar, 2024. Accessed: Jan. 24, 2026. [Online]. Available: https://repository.unhas.ac.id/id/eprint/35735/2/H011201078_skripsi_19-06-2024%201-2.pdf

[55] D. Kurniasari, T. P. Shella, M. Usman, and Warsono, "A Hybrid ARIMA-GRU Model for Forecasting Palm Oil Prices at PT Sawit Sumbermas Sarana

in Central Kalimantan," *Integra: Journal of Integrated Mathematics and Computer Science*, vol. 2, no. 1, pp. 7-14, Mar. 2025, doi: 10.26554/integrajimcs.20252112.

[56] Y. Si, S. Nadarajah, Z. Zhang, and C. Xu, "Modeling opening price spread of Shanghai Composite Index based on ARIMA-GRU/LSTM hybrid model," *PLoS One*, vol. 19, no. 3 March, Mar. 2024, doi: 10.1371/journal.pone.0299164.

[57] S. A. Khalil and A. M. Shaffie, "A comparative study of total, direct and diffuse solar irradiance by using different models on horizontal and inclined surfaces for Cairo, Egypt," *Renewable and Sustainable Energy Reviews*, vol. 27, pp. 853-863, Nov. 2013, doi: 10.1016/j.rser.2013.06.038.

[58] Badan Pusat Statistik, "Inflasi Bulanan (M-to-M) (Persen)," https://www.bps.go.id/id/statistics-table/2/MSMy/inflasi--umum-.html.

[59] Bank Indonesia, "Statistik Ekonomi dan Keuangan Indonesia (SEKI)," https://www.bi.go.id/id/statistik/ekonomi-keuangan/seki/Default.aspx.

[60] Bank Indonesia, "Laporan Survei Penjualan Eceran," https://www.bi.go.id/id/publikasi/laporan/default.aspx?Kategori=survei%20penjualan%20eceran&Periode=.

[61] E. D. Tjahjono, H. Harmanta, and N. M. A. Purwato, "Survey Measures of Inflation Expectation," *Buletin Ekonomi Moneter dan Perbankan*, vol. 14, no. 4, pp. 421-456, Jun. 2012, doi: 10.21098/bemp.v14i4.366.

[62] Central Agency of Statistics (BPS), "BI Rate," https://www.bps.go.id/id/statistics-table/2/Mzc5IzI=/bi-rate.html.

[63] Bank Indonesia, "Kurs Transaksi Bank Indonesia," https://www.bi.go.id/id/statistik/informasi-kurs/transaksi-bi/Default.aspx.

[64] Badan Pusat Statistik, "Inflasi Umum, Inti, Harga Diatur Pemerintah, dan Bergejolak Nasional (M-to-M dan Y-to-D)," https://www.bps.go.id/id/statistics-table/1/OTA4IzE=/inflasi-umum-inti-

harga-diatur-pemerintah-dan-bergejolak-nasional-m-to-m-dan-y-to-d-2009-2026.html.

[65] Bank Indonesia, "Inflation," https://www.bi.go.id/en/fungsi-utama/moneter/inflasi/default.aspx.

[66] A. R. Farandy, "Analyzing Factors Affecting Indonesian Food Price Inflation," *Jurnal Ekonomi dan Pembangunan*, vol. 28, no. 1, pp. 65-76, Dec. 2020, doi: 10.14203/JEP.28.1.2020.65-76.

[67] A. N. Maulidya, A. Rahim, S. Astuty, B. Bado, and D. R. D. Hastuti, "A Comparative Analysis of the Determinants of Inflation in Indonesia and Singapore," *Airlangga Journal of Innovation Management*, vol. 6, no. 3, pp. 624-641, Oct. 2025, doi: 10.20473/ajim.v6i3.76481.

[68] I. M. O. Aditya, T. Chaidir, and G. A. Arini, "Analisis Pengaruh Transmisi Kebijakan Moneter Melalui Jalur Suku Bunga Dan Harga Aset Terhadap Inflasi Di Indonesia Tahun 2017-2023," *JURNAL SOSIAL EKONOMI DAN HUMANIORA*, vol. 10, no. 3, pp. 402-416, Sep. 2024, doi: 10.29303/jseh.v10i3.611.

[69] A. Widarjono, M. M. Alam, E. Atmadji, P. Suseno, and L. E. Artiani, "The Asymmetric Exchange Rate Pass-Through to Inflation in the Selected ASEAN Countries," *Bulletin of Monetary Economics and Banking*, vol. 26, no. 1, pp. 105-124, Mar. 2023, doi: 10.59091/1410-8046.2047.