

DAFTAR PUSTAKA

- [1] Nicola. Frost, *Indonesia*. Oxfam, 2002.
- [2] T.Rochelle, "Travel & Tourism Economic Impact 2017," *World Travel & Tourism Council*, pp. 1–24, 2017, [Online]. Available: <https://www.wttc.org/-/media/files/reports/economic-impact-research/countries-2017/china2017.pdf>
- [3] F. Achmad, Y. Prambudia, and A. A. Rumanti, "Improving Tourism Industry Performance through Support System Facilities and Stakeholders: The Role of Environmental Dynamism," *Sustainability* 2023, Vol. 15, Page 4103, vol. 15, no. 5, p. 4103, Feb. 2023, doi: 10.3390/SU15054103.
- [4] Badan Pusat Statistik, "Number of Foreign Tourist Visits per month to Indonesia by Entrance, 2008 - 2017." Accessed: Aug. 18, 2023. [Online]. Available: <https://www.bps.go.id/indicator/16/74/2/jumlah-kunjungan-wisatawan-mancanegara-per-bulan-ke-indonesia-menurut-pintu-masuk-2008---2017.html>
- [5] Badan Pusat Statistik, "Number of Foreign Tourist Visits per month to Indonesia by Entrance, 2017 - present (Visit), 2023." Accessed: Aug. 18, 2023. [Online]. Available: <https://www.bps.go.id/indicator/16/1150/1/jumlah-kunjungan-wisatawan-mancanegara-per-bulan-ke-indonesia-menurut-pintu-masuk-2017---sekarang.html>
- [6] M. Ahmed, G. Haider, and A. Zaman, "Detecting structural change with heteroskedasticity," *Commun Stat Theory Methods*, vol. 46, no. 21, pp. 10446–10455, Nov. 2017, doi: 10.1080/03610926.2016.1235200.
- [7] H. Song and R. J. Hyndman, "Tourism forecasting: An introduction," *Int J Forecast*, vol. 27, no. 3, pp. 817–821, Jul. 2011, doi: 10.1016/J.IJFORECAST.2011.03.001.
- [8] X. Huang, L. Zhang, and Y. Ding, "The Baidu Index: Uses in predicting tourism flows –A case study of the Forbidden City," *Tour Manag*, vol. 58, pp. 301–306, Feb. 2017, doi: 10.1016/J.TOURMAN.2016.03.015.
- [9] S. K. Prilistya and A. E. Permanasari, "The Effect of The COVID-19 Pandemic and Google Trends on the Forecasting of International Tourist Arrivals in Indonesia".
- [10] T. Zhou, H. Lu, Z. Yang, S. Qiu, B. Huo, and Y. Dong, "The ensemble deep learning model for novel COVID-19 on CT images," *Appl Soft Comput*, vol. 98, p. 106885, Jan. 2021, doi: 10.1016/J.ASOC.2020.106885.
- [11] S. Kumar, S. Mishra, and S. K. Singh, "Deep Transfer Learning-based COVID-19 prediction using Chest X-rays," *medRxiv*, p. 2020.05.12.20099937, May 2020, doi: 10.1101/2020.05.12.20099937.
- [12] S. Rai, A. Raut, A. Savaliya, and R. Shankarmani, "Darwin: Convolutional Neural Network based Intelligent Health Assistant," *Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology, ICECA 2018*, pp. 1367–1371, Sep. 2018, doi:

- 10.1109/ICECA.2018.8474861.
- [13] H. Xie, L. Zhang, and C. P. Lim, “Evolving CNN-LSTM Models for Time Series Prediction Using Enhanced Grey Wolf Optimizer,” *IEEE Access*, vol. 8, pp. 161519–161541, Sep. 2020, doi: 10.1109/ACCESS.2020.3021527.
 - [14] A. Kharista, A. E. Permanasari, and I. Hidayah, “The performance of GM (1,1) and ARIMA for forecasting of foreign tourists visit to Indonesia,” *2015 International Seminar on Intelligent Technology and Its Applications (ISITIA)*, pp. 33–37, Aug. 2015, doi: 10.1109/ISITIA.2015.7219949.
 - [15] A. Alamsyah and P. B. A. Friscintia, “Artificial neural network for Indonesian tourism demand forecasting,” *2019 7th International Conference on Information and Communication Technology, ICoICT 2019*, Jul. 2019, doi: 10.1109/ICOICT.2019.8835382.
 - [16] I. Jiwana *et al.*, “Peramalan Data Kunjungan Wisatawan Mancanegara ke Indonesia menggunakan Fuzzy Time Series,” *JEPIN (Jurnal Edukasi dan Penelitian Informatika)*, vol. 5, no. 1, pp. 18–23, Apr. 2019, doi: 10.26418/JP.V5I1.31074.
 - [17] N. Putu, N. Hendayanti, M. Nurhidayati, and R. Artikel, “Perbandingan Metode Seasonal Autoregressive Integrated Moving Average (SARIMA) dengan Support Vector Regression (SVR) dalam Memprediksi Jumlah Kunjungan Wisatawan Mancanegara ke Bali,” *Jurnal Varian*, vol. 3, no. 2, pp. 149–162, Apr. 2020, doi: 10.30812/VARIAN.V3I2.668.
 - [18] H. Laaroussi, F. Guerouate, and M. Sbihi, “Deep Learning Framework for Forecasting Tourism Demand,” *2020 IEEE International Conference on Technology Management, Operations and Decisions, ICTMOD 2020*, Nov. 2020, doi: 10.1109/ICTMOD49425.2020.9380612.
 - [19] H. Jie, H. Zou, and Q. Xu, “Forecasting Daily MRT Passenger Flow in Taipei Based on Google Search Queries,” in *2021 International Symposium on Computer Science and Intelligent Controls (ISCSIC)*, 2021, pp. 46–50. doi: 10.1109/ISCSIC54682.2021.00020.
 - [20] P. Kaewmanee, J. Muangprathub, and W. Sae-Jie, “Forecasting Tourist Arrivals with Keyword Search using Time Series,” in *2021 18th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)*, 2021, pp. 171–174. doi: 10.1109/ECTI-CON51831.2021.9454824.
 - [21] F. Liu and W. Wang, “Forecasting of Short-term Tourism Demand Based on Multivariate Time Series Clustering and LSSVM,” in *2022 IEEE 6th Advanced Information Technology, Electronic and Automation Control Conference (IAEAC)*, 2022, pp. 174–178. doi: 10.1109/IAEAC54830.2022.9929603.
 - [22] M. K. Khafidli and A. Choiruddin, “Forecast of Aviation Traffic in Indonesia Based on Google Trend and Macroeconomic Data using Long Short-Term Memory,” in *2022 International Conference on Data Science and Its Applications (ICoDSA)*, 2022, pp. 220–225. doi: 10.1109/ICoDSA55874.2022.9862894.
 - [23] I. Nur Ozaslan, A. Degirmenci, and O. Karal, “Tourism Demand

- Forecasting for Turkey by Using Adaboost Algorithm,” in *2022 Innovations in Intelligent Systems and Applications Conference (ASYU)*, 2022, pp. 1–5. doi: 10.1109/ASYU56188.2022.9925381.
- [24] J. Leng and X. Liu, “Research on Seasonal Tourism Passenger Flow Prediction AI Algorithm Based on PSO,” in *2023 IEEE 3rd International Conference on Electronic Communications, Internet of Things and Big Data (ICEIB)*, 2023, pp. 457–460. doi: 10.1109/ICEIB57887.2023.10170066.
- [25] J. Chen, P. Chen, and H. Gu, “LSTM-RF-PSO Combined Algorithm for Short-Term Passenger Flow Forecasting in Scenic Areas,” in *2023 International Conference on Electronics and Devices, Computational Science (ICEDCS)*, 2023, pp. 544–548. doi: 10.1109/ICEDCS60513.2023.00103.
- [26] K. Volchek, A. Liu, H. Song, and D. Buhalis, “Forecasting tourist arrivals at attractions: Search engine empowered methodologies,” *https://doi.org/10.1177/1354816618811558*, vol. 25, no. 3, pp. 425–447, Nov. 2018, doi: 10.1177/1354816618811558.
- [27] V. Sai Vineeth, H. Kusetogullari, and A. Boone, “Forecasting Sales of Truck Components: A Machine Learning Approach,” in *2020 IEEE 10th International Conference on Intelligent Systems (IS)*, 2020, pp. 510–516. doi: 10.1109/IS48319.2020.9200128.
- [28] S. Makridakis, S. C. Wheelwright, and V. E. McGee, *Metode Dan Aplikasi Peramalan*, vol. 1. Jakarta: Erlangga Univ, Press, 1999.
- [29] J. A. Divino and M. McAleer, “Modelling and forecasting daily international mass tourism to Peru,” *Tour Manag*, vol. 31, no. 6, pp. 846–854, Dec. 2010, doi: 10.1016/J.TOURMAN.2009.09.002.
- [30] B. Pan and Y. Yang, “Monitoring and Forecasting Tourist Activities with Big Data,” 2017, pp. 43–62. doi: 10.1201/b19937-3.
- [31] J. W. Bi, Y. Liu, and H. Li, “Daily tourism volume forecasting for tourist attractions,” *Ann Tour Res*, vol. 83, p. 102923, Jul. 2020, doi: 10.1016/J.ANNALS.2020.102923.
- [32] C. W. Wu, L. Ji, K. He, and G. Tso, “Forecasting Tourist Daily Arrivals With A Hybrid Sarima–Lstm Approach,” *Journal of Hospitality & Tourism Research*, vol. 45, p. 109634802093404, Dec. 2020, doi: 10.1177/1096348020934046.
- [33] D. Silver *et al.*, “Mastering the game of Go with deep neural networks and tree search,” *Nature*, vol. 529, no. 7587, pp. 484–489, Jan. 2016, doi: 10.1038/NATURE16961.
- [34] A. Lusci, G. Pollastri, and P. Baldi, “Deep architectures and deep learning in chemoinformatics: the prediction of aqueous solubility for drug-like molecules,” *J Chem Inf Model*, vol. 53, no. 7, p. 1563, Jul. 2013, doi: 10.1021/CI400187Y.
- [35] R. DiPietro and G. Hager, “Deep learning: RNNs and LSTM,” pp. 503–519, 2020, doi: 10.1016/b978-0-12-816176-0.00026-0.
- [36] S. Mittal and S. Umesh, “A survey On hardware accelerators and optimization techniques for RNNs,” *J. Syst. Archit.*, vol. 112, p. 101839,

- 2020, doi: 10.1016/j.sysarc.2020.101839.
- [37] A. Prasetyo and H. A. Santoso, "Intents Categorization for Chatbot Development Using Recurrent Neural Network (RNN) Learning," in *2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS)*, 2021, pp. 51–55. doi: 10.1109/ICACCS51430.2021.9441947.
 - [38] S. Lin, W. Lin, W. Wu, F. Zhao, R. Mo, and H. Zhang, "SegRNN: Segment Recurrent Neural Network for Long-Term Time Series Forecasting," *ArXiv*, vol. abs/2308.11200, 2023, doi: 10.48550/arXiv.2308.11200.
 - [39] R. C. Deo, M. K. Tiwari, J. F. Adamowski, and J. M. Quilty, "Forecasting effective drought index using a wavelet extreme learning machine (W-ELM) model," *Stochastic Environmental Research and Risk Assessment*, vol. 31, no. 5, pp. 1211–1240, Jul. 2017, doi: 10.1007/S00477-016-1265-Z.
 - [40] H. Choi *et al.*, "Real-time significant wave height estimation from raw ocean images based on 2D and 3D deep neural networks," *Ocean Engineering*, vol. 201, p. 107129, Apr. 2020, doi: 10.1016/J.OCEANENG.2020.107129.
 - [41] M. R. Vargas, C. E. M. dos Anjos, G. L. G. Bichara, and A. Evsukoff, "Deep Learning for Stock Market Prediction Using Technical Indicators and Financial News Articles," *2018 International Joint Conference on Neural Networks (IJCNN)*, pp. 1–8, 2018, doi: 10.1109/IJCNN.2018.8489208.
 - [42] M. R. Vargas, B. Lima, and A. Evsukoff, "Deep learning for stock market prediction from financial news articles," *2017 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA)*, pp. 60–65, 2017, doi: 10.1109/CIVEMSA.2017.7995302.
 - [43] H. M, G. E.A, V. Menon, and S. K.P., "NSE Stock Market Prediction Using Deep-Learning Models," *Procedia Comput Sci*, vol. 132, pp. 1351–1362, 2018, doi: 10.1016/J.PROCS.2018.05.050.
 - [44] S. Hochreiter and J. Schmidhuber, "Long Short-Term Memory," *Neural Comput*, vol. 9, no. 8, pp. 1735–1780, Nov. 1997, doi: 10.1162/NECO.1997.9.8.1735.
 - [45] Y. Li, Y. Yang, C. Yang, and B. Zhang, "A-LSTM model for predicting the deaths caused by COVID-19 in U.S.," *2021 4th International Conference on Pattern Recognition and Artificial Intelligence, PRAI 2021*, pp. 287–290, Aug. 2021, doi: 10.1109/PRAI53619.2021.9551048.
 - [46] E. Saa and L. Ranathunga, "Comparison between ARIMA and Deep Learning Models for Temperature Forecasting." Mar. 2020.
 - [47] S. Rafi, .. Nahid-Al-Masood, S. R. Deebea, and E. Hossain, "A Short-Term Load Forecasting Method Using Integrated CNN and LSTM Network," *IEEE Access*, vol. 9, pp. 32436–32448, 2021, doi: 10.1109/ACCESS.2021.3060654.
 - [48] C. Li, P. Wang, S. Wang, Y. Hou, and W. Li, "Skeleton-based action recognition using LSTM and CNN," *2017 IEEE International Conference on Multimedia & Expo Workshops (ICMEW)*, pp. 585–590, 2017, doi:

- 10.1109/ICMEW.2017.8026287.
- [49] S. Khalil, C. Amrit, T. Koch, and E. Dugundji, "Forecasting Public Transport Ridership: Management of Information Systems using CNN and LSTM Architectures," pp. 283–290, 2021, doi: 10.1016/j.procs.2021.03.037.
 - [50] E. Bantis, M. P. Clements, and A. Urquhart, "Forecasting GDP growth rates in the United States and Brazil using Google Trends," *Int J Forecast*, vol. 39, no. 4, pp. 1909–1924, Oct. 2023, doi: 10.1016/J.IJFORECAST.2022.10.003.
 - [51] M. AravindPrakash, K. Indragandhi, R. Sriram, and Amaysingh, "An Effective Comparative Analysis of Data Preprocessing Techniques in Network Intrusion Detection System Using Deep Neural Networks," *Advances in Parallel Computing*, 2021, doi: 10.3233/apc210005.
 - [52] S. He, Y. Wang, X.-H. Sun, and C. Xu, "Using MinMax-Memory Claims to Improve In-Memory Workflow Computations in the Cloud," *IEEE Transactions on Parallel and Distributed Systems*, vol. 28, pp. 1202–1214, 2017, doi: 10.1109/TPDS.2016.2614294.
 - [53] K. Yunus, T. Thiringer, and P. Chen, "ARIMA-Based Frequency-Decomposed Modeling of Wind Speed Time Series," *IEEE Transactions on Power Systems*, vol. 31, pp. 2546–2556, 2016, doi: 10.1109/TPWRS.2015.2468586.
 - [54] A. Schaffer, T. Dobbins, and S.-A. Pearson, "Interrupted time series analysis using autoregressive integrated moving average (ARIMA) models: a guide for evaluating large-scale health interventions," *BMC Med Res Methodol*, vol. 21, 2021, doi: 10.1186/s12874-021-01235-8.
 - [55] H. Wang, C. Wang, X. Lin, and J. Kang, "An improved ARIMA model for precipitation simulations," *Nonlinear Process Geophys*, vol. 21, pp. 1159–1168, 2014, doi: 10.5194/NPG-21-1159-2014.
 - [56] F. Mahia, A. Dey, M. A. Masud, and M. S. Mahmud, "Forecasting Electricity Consumption using ARIMA Model," *2019 International Conference on Sustainable Technologies for Industry 4.0 (STI)*, pp. 1–6, 2019, doi: 10.1109/STI47673.2019.9068076.
 - [57] R. Kumar, P. Kumar, and Y. Kumar, "Multi-step time series analysis and forecasting strategy using ARIMA and evolutionary algorithms," *International Journal of Information Technology*, vol. 14, pp. 359–373, 2021, doi: 10.1007/s41870-021-00741-8.
 - [58] C. Grillenzoni, "ARIMA Processes With ARIMA Parameters," *Journal of Business & Economic Statistics*, vol. 11, pp. 235–250, 1993, doi: 10.1080/07350015.1993.10509952.
 - [59] Y. Liu, G. Feng, K. Chin, S. Sun, and S. Wang, "Daily tourism demand forecasting: the impact of complex seasonal patterns and holiday effects," *Current Issues in Tourism*, vol. 26, pp. 1573–1592, 2022, doi: 10.1080/13683500.2022.2060067.
 - [60] M. A. R. Shaon and Y. Baghzouz, "Day-Ahead Residential Customer Load Forecasting Using Prophet," in *2023 IEEE International Conference on Environment and Electrical Engineering and 2023 IEEE Industrial and*

- Commercial Power Systems Europe (EEEIC / I&CPS Europe)*, 2023, pp. 1–4. doi: 10.1109/EEEIC/ICPSEurope57605.2023.10194618.
- [61] T. Nithish, G. R. Bharamagoudar, K. Karibasappa, and S. G. Totad, “Real-Time Anomaly Detection Using Facebook Prophet,” *Int. J. Nat. Comput. Res.*, vol. 10, pp. 29–40, 2021, doi: 10.4018/ijncr.2021070103.
- [62] E. D. Moreno, A. F. da Mota, V. D. S. Aragão, M. E. L. Olave, W. R. A. Dias, and P. Afonso, “A WEB tool for identifying and monitoring technology trends,” in *Proceedings of the 10th Euro-American Conference on Telematics and Information Systems*, in EATIS '20. New York, NY, USA: Association for Computing Machinery, 2021. doi: 10.1145/3401895.3402061.
- [63] J. Hogue and B. DeWilde, “pytrends: pseudo API for google trends.” 2022.
- [64] D. Belete and M. D. Huchaiah, “Grid search in hyperparameter optimization of machine learning models for prediction of HIV/AIDS test results,” *International Journal of Computers and Applications*, vol. 44, pp. 875–886, 2021, doi: 10.1080/1206212X.2021.1974663.
- [65] R. Ghawi and J. Pfeffer, “Efficient Hyperparameter Tuning with Grid Search for Text Categorization using kNN Approach with BM25 Similarity,” *Open Computer Science*, vol. 9, pp. 160–180, 2019, doi: 10.1515/comp-2019-0011.
- [66] G. SijiGeorgeC and B. Sumathi, “Grid Search Tuning of Hyperparameters in Random Forest Classifier for Customer Feedback Sentiment Prediction,” *International Journal of Advanced Computer Science and Applications*, vol. 11, 2020, doi: 10.14569/ijacsa.2020.0110920.
- [67] S. Kim and H. Kim, “A new metric of absolute percentage error for intermittent demand forecasts,” *Int J Forecast*, vol. 32, pp. 669–679, 2016, doi: 10.1016/J.IJFORECAST.2015.12.003.
- [68] L. Borzemski and M. Wojtkiewicz, “Evaluation of Chaotic Internet Traffic Predictor Using MAPE Accuracy Measure,” pp. 173–182, 2011, doi: 10.1007/978-3-642-21771-5_19.
- [69] A. R. Lubis, S. Prayudani, Y. Fatmi, M. Lubis, and Al-Khowarizmi, “MAPE accuracy of CPO Forecasting by Applying Fuzzy Time Series,” *2021 8th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)*, pp. 370–373, 2021, doi: 10.23919/eeesi53397.2021.9624303.
- [70] P. Lusi, K. Khalilpour, L. Andrew, and A. Liebman, “Short-term residential load forecasting: Impact of calendar effects and forecast granularity,” *Appl Energy*, vol. 205, pp. 654–669, 2017, doi: 10.1016/J.APENERGY.2017.07.114.
- [71] Ö. Kisi and M. Çimen, “Precipitation forecasting by using wavelet-support vector machine conjunction model,” *Eng. Appl. Artif. Intell.*, vol. 25, pp. 783–792, 2012, doi: 10.1016/j.engappai.2011.11.003.
- [72] C. Stefanakos, O. Schinas, and G. Eidnes, “Application of Fuzzy Time Series Techniques in Wind and Wave Data Forecasting,” 2014, doi: 10.1115/OMAE2014-24612.
- [73] C.-R. Ko and H.-T. Chang, “LSTM-based sentiment analysis for stock price

- forecast,” *PeerJ Comput Sci*, vol. 7, 2021, doi: 10.7717/peerj-cs.408.
- [74] N. H. A. Rahman and M. H. Lee, “Artificial neural network forecasting performance with missing value imputations,” *IAES International Journal of Artificial Intelligence*, vol. 9, pp. 33–39, 2020, doi: 10.11591/ijai.v9.i1.pp33-39.
- [75] M. Matyjaszek, P. R. Fernández, A. Krzemień, K. Wodarski, and G. F. Valverde, “Forecasting coking coal prices by means of ARIMA models and neural networks, considering the transgenic time series theory,” *Resources Policy*, 2019, doi: 10.1016/J.RESOURPOL.2019.02.017.
- [76] A. Haqiq and B. Pharmasetiawan, “Data Analytics For Forecasting Arrival of Tourism Visit in Indonesia,” in *2019 International Conference on ICT for Smart Society (ICISS)*, 2019, pp. 1–6. doi: 10.1109/ICISS48059.2019.8969795.
- [77] G. K. Patro and K. K. Sahu, “Normalization: A Preprocessing Stage,” *ArXiv*, vol. abs/1503.06462, 2015, [Online]. Available: <https://api.semanticscholar.org/CorpusID:16159835>
- [78] X. Ying, “An Overview of Overfitting and its Solutions,” *J Phys Conf Ser*, vol. 1168, 2019, doi: 10.1088/1742-6596/1168/2/022022.
- [79] W. Lu, J. Li, Y. Li, A. Sun, and J. Wang, “A CNN-LSTM-Based Model to Forecast Stock Prices,” *Complexity*, vol. 2020, p. 6622927, 2020, doi: 10.1155/2020/6622927.
- [80] H. L. Dawson, O. Dubrule, and C. M. John, “Impact of dataset size and convolutional neural network architecture on transfer learning for carbonate rock classification,” *Comput Geosci*, vol. 171, p. 105284, 2023, doi: <https://doi.org/10.1016/j.cageo.2022.105284>.