

DAFTAR PUSTAKA

- [1] A. de Ruijter, R. Beetsma, B. Burgoon, F. Nicoli, and F. Vandenbroucke, *Europe in the Time of Covid-19*. 2020.
- [2] H. Qi *et al.*, “COVID-19 transmission in Mainland China is associated with temperature and humidity: A time-series analysis,” *Sci. Total Environ.*, vol. 728, p. 138778, 2020, doi: 10.1016/j.scitotenv.2020.138778.
- [3] “WHO Coronavirus (COVID-19) Dashboard,” *World Health Organization*. <https://covid19.who.int/> (accessed May 25, 2023).
- [4] R. Nuraini, “Kasus Covid-19 Pertama, Masyarakat Jangan Panik,” *Indonesia.go.id*, 2020. <https://indonesia.go.id/narasi/indonesia-dalam-angka/ekonomi/kasus-covid-19-pertama-masyarakat-jangan-panik>
- [5] “Peta Sebaran Covid Indonesia,” *covid19.go.id*. <https://covid19.go.id/id/peta-sebaran> (accessed May 25, 2023).
- [6] R. Sebayang, “WHO Nyatakan Wabah COVID-19 jadi Pandemi, Apa Maksudnya?,” *CNBC Indonesia*, 2020. <https://www.cnbcindonesia.com/news/20200312075307-4-144247/who-nyatakan-wabah-covid-19-jadi-pandemi-apa-maksudnya> (accessed May 22, 2023).
- [7] A. Kurniawan, “Pelaksanaan PPKM dalam Penanganan Kasus COVID-19 dan Evaluasinya,” *Kementerian Keuangan Republik Indonesia*, 2021. <https://www.djkn.kemenkeu.go.id/kpknl-semarang/baca-artikel/14314/Pelaksanaan-PPKM-dalam-Penanganan-Kasus-COVID-19-dan-Evaluasinya.html> (accessed May 22, 2023).
- [8] A. Jakob, S. Hasibuan, and D. Fiantis, “Empirical evidence shows that air quality changes during COVID-19 pandemic lockdown in Jakarta, Indonesia are due to seasonal variation, not restricted movements,” *Environ. Res.*, vol. 208, p. 112391, May 2022, doi: 10.1016/j.envres.2021.112391.

- [9] S. Hochreiter and J. Schmidhuber, “Long Short-Term Memory,” *Neural Comput.*, vol. 9, no. 8, pp. 1735–1780, 1997, doi: 10.1162/neco.1997.9.8.1735.
- [10] C. Chandra and S. Budi, “Analisis Komparatif ARIMA dan Prophet dengan Studi Kasus Dataset Pendaftaran Mahasiswa Baru,” *J. Tek. Inform. dan Sist. Inf.*, vol. 6, no. 2, Aug. 2020, doi: 10.28932/jutisi.v6i2.2676.
- [11] S. Bera and V. K. Shrivastava, “Analysis of various optimizers on deep convolutional neural network model in the application of hyperspectral remote sensing image classification,” *Int. J. Remote Sens.*, vol. 41, no. 7, pp. 2664–2683, Apr. 2020, doi: 10.1080/01431161.2019.1694725.
- [12] S. A. Sanjaya and M. I. Fianty, “Time-based Geospatial Analysis of Night-Time Light Data and Citizen Movement Restriction During Covid-19 Period,” *G-Tech J. Teknol. Terap.*, vol. 7, no. 2, pp. 664–673, Mar. 2023, doi: 10.33379/gtech.v7i2.2397.
- [13] E. S. Putri and M. Sadikin, “Prediksi Penjualan Produk Untuk Mengestimasi Kebutuhan Bahan Baku Menggunakan Perbandingan Algoritma LSTM dan ARIMA,” *Format J. Ilm. Tek. Inform.*, vol. 10, no. 2, p. 162, Aug. 2021, doi: 10.22441/format.2021.v10.i2.007.
- [14] R. Rosita, “PENGARUH PANDEMI COVID-19 TERHADAP UMKM DI INDONESIA,” *J. LENTERA BISNIS*, vol. 9, no. 2, p. 109, Nov. 2020, doi: 10.34127/jrlab.v9i2.380.
- [15] M. Z. A. Anis, H. Susanto, and F. Fathurrahman, “Studi Evaluatif Pembelajaran Sejarah Daring Pada Masa Pandemi Covid-19,” *Fajar Hist. J. Ilmu Sej. dan Pendidik.*, vol. 5, no. 1, pp. 60–69, 2021, doi: 10.29408/fhs.v5i1.3358.
- [16] D. Permatasari, “Kebijakan Covid-19 dari PSBB hingga PPKM Empat Level,” *Kompas*, 2021.
https://kompaspedia.kompas.id/baca/infografik/kronologi/kebijakan-covid-19-dari-psbb-hingga-ppkm-empat-level?track_source=kompaspedia

- paywall&track_medium=login-paywall&track_content=https%3A%2F%2Fkompaspedia.kompas.id%2Fba
ca%2Finfografik%2Fkronologi%2Fke (accessed Jun. 26, 2022).
- [17] Mousafi Dimas Afrizal, Ruwanda Prasetya, Febrina Ramadhani Yusuf, Wahyu Nurbandi1, and Muhammad Kamall1, “Pemanfaatan Citra VIIRS dan Analisis Spasial untuk Penentuan Lokasi Potensial Pengembangan Wisata Astronomis,” *Semin. Nas. Penginderaan Jauh*, no. September 2017, 2016, [Online]. Available: <https://www.researchgate.net/publication/319664377>
 - [18] N. E. Rozanda, I. Marzuki, and I. Permana, “Pemanfaatan Google Earth Imagery untuk Segmentasi Lahan Hijau,” *Semin. Nas. Teknol. Inf. Komun. dan Ind.*, no. 2008, pp. 119–125, 2012.
 - [19] J. L. Elman, “Finding structure in time,” *Cogn. Sci.*, vol. 14, no. 2, pp. 179–211, 1990, doi: 10.1016/0364-0213(90)90002-E.
 - [20] S. Raschka and V. Mirjalili, *Python Machine Learning Third Edition*, no. December 2019. Birmingham - Mumbai, 2019.
 - [21] R. Arifan Juanda and A. Atiqi Rohmawati, “Prediksi Harga Bitcoin Dengan Menggunakan Recurrent Neural Network,” *eProceedings Eng.*, vol. 5, no. 2, pp. 3682–3690, 2018.
 - [22] A. Alghoul, S. Al Ajrami, G. Al Jarousha, G. Harb, and S. S. Abu-Naser, “Email Classification Using Artificial Neural Network,” *Int. J. Acad. Eng. Res.*, vol. 2, no. 11, pp. 8–14, 2018.
 - [23] F. Hu, G.-S. Xia, J. Hu, and L. Zhang, “Transferring Deep Convolutional Neural Networks for the Scene Classification of High-Resolution Remote Sensing Imagery,” *Remote Sens.*, vol. 7, no. 11, pp. 14680–14707, Nov. 2015, doi: 10.3390/rs71114680.
 - [24] “Difference between ANN, CNN and RNN,” *GeeksforGeeks.org*, 2023. <https://www.geeksforgeeks.org/difference-between-ann-cnn-and-rnn/> (accessed May 28, 2023).

- [25] Y. Zhang, P. Hutchinson, N. A. J. Lieven, and J. Nunez-Yanez, “Remaining useful life estimation using long short-term memory neural networks and deep fusion,” *IEEE Access*, vol. 8, pp. 19033–19045, 2020, doi: 10.1109/ACCESS.2020.2966827.
- [26] M. W. P. Aldi, Jondri, and A. Aditsania, “Analisis dan Implementasi Long Short Term Memory Neural Network untuk Prediksi Harga Bitcoin,” *e- Proceeding Eng.*, vol. 5, no. 2, pp. 3548–3555, 2018.
- [27] R. Dolphin, “LSTM Networks | A Detailed Explanation,” *Towards Data Science*, 2020. <https://towardsdatascience.com/lstm-networks-a-detailed-explanation-8fae6aefc7f9> (accessed May 28, 2023).
- [28] G. M. Robinson, “Time Series Analysis,” in *International Encyclopedia of Human Geography*, Elsevier, 2020, pp. 291–300. doi: 10.1016/B978-0-08-102295-5.10614-6.
- [29] B. Y. Pandji, I. Indwiarti, and A. A. Rohmawati, “Perbandingan Prediksi Harga Saham dengan model ARIMA dan Artificial Neural Network,” *Indones. J. Comput.*, vol. 4, no. 2, pp. 189–198, 2019, doi: 10.21108/indojc.2019.4.2.344.
- [30] A. Bode, “K-Nearest Neighbor Dengan Feature Selection Menggunakan Backward Elimination Untuk Prediksi Harga Komoditi Kopi Arabika,” *Ilk. J. Ilm.*, vol. 9, no. 2, pp. 188–195, 2017, doi: 10.33096/ilkom.v9i2.139.188-195.
- [31] Y. M. Rangkuti, S. I. Al Idrus, and D. D. Tarigan, *Pengantar Pemrograman Python*. Media Sains Indonesia, 2021.
- [32] “Apa itu Python,” *Amazon.com*, 2023. <https://aws.amazon.com/id/what-is/python/> (accessed Mar. 31, 2023).
- [33] Python.org, “The latest version of Python,” 2023. <https://www.python.org/downloads/> (accessed Mar. 31, 2023).
- [34] “9 LIBRARY PYTHON YANG POPULER DI KALANGAN DATA

- SCIENTIST,” 2022. <https://algorit.ma/blog/library-python/> (accessed Apr. 01, 2023).
- [35] Anaconda, “Who is Anaconda.” <https://www.anaconda.com/about-us> (accessed Mar. 31, 2023).
- [36] D. Hartama, “Analisa Visualisasi Data Akademik Menggunakan Tableau Big Data,” *Jurasik (Jurnal Ris. Sist. Inf. dan Tek. Inform.)*, vol. 3, no. 3, p. 46, 2018, doi: 10.30645/jurasik.v3i0.65.
- [37] J. Gibson and G. Boe-Gibson, “Nighttime Lights and County-Level Economic Activity in the United States: 2001 to 2019,” *Remote Sens.*, vol. 13, no. 14, p. 2741, Jul. 2021, doi: 10.3390/rs13142741.
- [38] C. D. Elvidge, M. Zhizhin, T. Ghosh, F.-C. Hsu, and J. Taneja, “Annual Time Series of Global VIIRS Nighttime Lights Derived from Monthly Averages: 2012 to 2019,” *Remote Sens.*, vol. 13, no. 5, p. 922, Mar. 2021, doi: 10.3390/rs13050922.
- [39] X. Wang, P. C. Sutton, and B. Qi, “Global Mapping of GDP at 1 km² Using VIIRS Nighttime Satellite Imagery,” *ISPRS Int. J. Geo-Information*, vol. 8, no. 12, p. 580, Dec. 2019, doi: 10.3390/ijgi8120580.
- [40] G. E. Engine, “Platform Google Earth Engine,” *Google*. <https://earthengine.google.com/platform/> (accessed Apr. 01, 2023).
- [41] B. B. Sahoo, R. Jha, A. Singh, and D. Kumar, “Long short-term memory (LSTM) recurrent neural network for low-flow hydrological time series forecasting,” *Acta Geophys.*, vol. 67, no. 5, pp. 1471–1481, Oct. 2019, doi: 10.1007/s11600-019-00330-1.
- [42] K. E. ArunKumar, D. V. Kalaga, C. M. S. Kumar, M. Kawaji, and T. M. Brenza, “Forecasting of COVID-19 using deep layer Recurrent Neural Networks (RNNs) with Gated Recurrent Units (GRUs) and Long Short-Term Memory (LSTM) cells,” *Chaos, Solitons and Fractals*, vol. 146, p. 110861, 2021, doi: 10.1016/j.chaos.2021.110861.

- [43] D. Astuti, “Penentuan Strategi Promosi Usaha Mikro Kecil Dan Menengah (UMKM) Menggunakan Metode CRISP-DM dengan Algoritma K-Means Clustering,” *J. Informatics, Inf. Syst. Softw. Eng. Appl.*, vol. 1, no. 2, pp. 60–72, 2019, doi: 10.20895/inista.v1i2.71.
- [44] M. Rafi Muttaqin, T. Iman Hermanto, M. Agus Sunandar, P. Studi Teknik Informatika, and S. Tinggi Teknologi Wastukancana, “Penerapan K-Means Clustering dan Cross-Industry Standard Process For Data Mining (CRISP-DM) untuk Mengelompokan Penjualan Kue,” *Journal.Unpak.Ac.Id*, vol. 19, no. 1, pp. 38–53, 2022, [Online]. Available: <http://journal.unpak.ac.id/index.php/komputasi/article/view/3976>
- [45] Y. Suhanda, I. Kurniati, and S. Norma, “Penerapan Metode Crisp-DM Dengan Algoritma K-Means Clustering Untuk Segmentasi Mahasiswa Berdasarkan Kualitas Akademik,” *J. Teknol. Inform. dan Komput.*, vol. 6, no. 2, pp. 12–20, Sep. 2020, doi: 10.37012/jtik.v6i2.299.
- [46] N. Mirantika, “Penerapan Algoritma K-Means Clustering Untuk Pengelompokan Penyebaran Covid-19 di Provinsi Jawa Barat,” *Nuansa Inform.*, vol. 15, no. 2, pp. 92–98, 2021, doi: 10.25134/nuansa.v15i2.4321.
- [47] N. S. Rapingah *et al.*, *Buku Ajar Metode Penelitian*. Feniks Muda Sejahtera, 2022.

