DAFTAR PUSTAKA

Adel Andila Putri. (2023, Februari 6). *Jumlah Bencana Alam di Indonesia Selama Tahun 2022*. GoodStats Data. https://data.goodstats.id/statistic/jumlah-bencana-alam-di-indonesia-selama-tahun-2022-RA26l

Adil, I. H., & Irshad, A. U. R. (2015). A modified approach for detection of outliers. *Pakistan Journal of Statistics and Operation Research*, *11*(1), 91–102. https://doi.org/10.18187/pjsor.v11i1.500

Admin BNPB. (2024). *Infografis Bencana Tahun 2023*. Badan Nasional Penanggulangan Bencana. https://bnpb.go.id/infografis/infografis-bencana-tahun-2023

Aldiansyah, S., & Wardani, F. (2023). Evaluation of flood susceptibility prediction based on a resampling method using machine learning. *Journal of Water and Climate Change*. https://doi.org/10.2166/wcc.2023.494

Anand, A., Srivastava, D., & Rani, L. (2023). Anomaly Detection and Time Series Analysis. *2023 International Conference on IoT, Communication and Automation Technology, ICICAT 2023*. https://doi.org/10.1109/ICICAT57735.2023.10263680

Arifin, S., Wijaya, A., Nariswari, R., Yudistira, I. G. A. A., Suwarno, S., Faisal, F., & Wihardini, D. (2023). Long Short-Term Memory (LSTM): Trends and Future Research Potential. *International Journal of Emerging Technology and Advanced Engineering*, *13*(5), 24–34. https://doi.org/10.46338/ijetae0523_04

Arslan, M., Guzel, M., Demirci, M., & Ozdemir, S. (2019). SMOTE and Gaussian Noise Based Sensor Data Augmentation. *UBMK 2019 - Proceedings, 4th International Conference on Computer Science and Engineering*, 458–462. https://doi.org/10.1109/UBMK.2019.8907003

Aulia, F., Farisi, A., Setya Perdana, R., Adikara, P. P., & Korespondensi, P. (2023). Klasifikasi Intensi Dengan Metode Long Short-Term Memory Pada Chatbot Bahasa Indonesia. *Jurnal Teknologi Informasi dan Ilmu Komputer (JTIIK)*, *10*(7). https://doi.org/10.25126/jtiik.2023108000

Bansal, A., & Srivastava, S. (2018). Tools Used in Data Analysis: A Comparative Study. Dalam *International Journal of Recent Research Aspects* (Vol. 5). https://www.analyticsvidhya.com/blog/2014/03/sas-vs-

Barnett, C. (2015). *Rain : A Natural and Cultural History* (Barnett, Ed.; First Edition). Published in the United States by Crown Publishers, an imprint of the Crown Publishing Group, a division of Penguin Random House LLC, New York.

Basirat, M., & Roth, P. M. (2020). *ReLU Piece-wise Linear Activation Functions for Deep Fine-grained Visual Categorization.* https://doi.org/10.1109/WACV45572.2020.9093485

Blaine, B. (2023). Introductory Applied Statistics: With Resampling Methods & R. Dalam *Introductory Applied Statistics: With Resampling Methods and R.* Springer International Publishing. https://doi.org/10.1007/978-3-031-27741-2

Brereton, R. G. (2014). The normal distribution. *Journal of Chemometrics*, *28*(11), 789–792. https://doi.org/10.1002/cem.2655

Carnegie, D. A., & Chairani. (2023). *Perbandingan Long Short Term Memory (LSTM) dan Gated Recurrent Unit (GRU) Untuk Memprediksi Curah Hujan*. *7*(3), 1022–1032. https://doi.org/10.30865/mib.v7i3.6213

Chen, J., Zhang, J., Qian, R., Yuan, J., & Ren, Y. (2023). An Anomaly Detection Method for Wireless Sensor Networks Based on the Improved Isolation Forest. *Applied Sciences (Switzerland)*, *13*(2). https://doi.org/10.3390/app13020702

Degtyarev, V. V., & Naser, M. Z. (2021). Boosting machines for predicting shear strength of CFS channels with staggered web perforations. *Structures*, *34*, 3391–3403. https://doi.org/10.1016/j.istruc.2021.09.060

Dhouib, H., Wilms, A., & Boes, P. (2023). *Distribution and volume based scoring for Isolation Forests*. http://arxiv.org/abs/2309.11450

Ding, C., Zhang, M., & Gu, Y. (2021). Study on image quality control method based on Gaussian noise. *Journal of Physics: Conference Series*, *2029*(1). https://doi.org/10.1088/1742-6596/2029/1/012034

Domingues, R., Filippone, M., Michiardi, P., & Zouaoui, J. (2018). A comparative evaluation of outlier detection algorithms: Experiments and analyses. *Pattern Recognition*, *74*, 406–421. https://doi.org/10.1016/j.patcog.2017.09.037

Dubey, S. R., Singh, S. K., & Chaudhuri, B. B. (2022). Activation functions in deep learning: A comprehensive survey and benchmark. Dalam *Neurocomputing* (Vol. 503, hlm. 92–108). Elsevier B.V. https://doi.org/10.1016/j.neucom.2022.06.111

EL Bilali, A., Taleb, A., Bahlaoui, M. A., & Brouziyne, Y. (2021). An integrated approach based on Gaussian noises-based data augmentation method and AdaBoost model to predict faecal coliforms in rivers with small dataset. *Journal of Hydrology*, *599*. https://doi.org/10.1016/j.jhydrol.2021.126510

Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*. The MIT Press.

Hendra, Y., Mukhtar, H., & Hafsari, R. (2023). *Prediksi Curah Hujan Di Kota Pekanbaru menggunakan LSTM (Long Short Term Memory)* (Vol. 3, Nomor 2).

Hochreiter, S., & Schmidhuber, J. (1997). Long Short-Term Memory. *Neural Computation*, *9*(8), 1735–1780. https://doi.org/10.1162/neco.1997.9.8.1735

Hu, C., Wu, Q., Li, H., Jian, S., Li, N., & Lou, Z. (2018). Deep learning with a long short-term memory networks approach for rainfall-runoff simulation. *Water (Switzerland)*, *10*(11). https://doi.org/10.3390/w10111543

Iivari, A. (2022). *Anomaly Detection Technique For Unsupervised Machine Learning*.

Kisaka, M. O., Mucheru-Muna, M., Ngetich, F. K., Mugwe, J. N., Mugendi, D., & Mairura, F. (2014). Rainfall Variability, Drought Characterization, and Efficacy of Rainfall Data Reconstruction: Case of Eastern Kenya. *Advances in Meteorology*.

Kusuma Yoga, I., Prasetyowati, S., & Sibaroni, Y. (2022). Prediction And Mapping Rainfall Classification Using Naïve Bayes And Simple Kriging. *JIPI (Jurnal Ilmiah Penelitian dan Pembelajaran Informatika)*, *07*(04).

Lee, J. Y., & Kim, J. S. (2021). Detecting areas vulnerable to flooding using hydrological-topographic factors and logistic regression. *Applied Sciences (Switzerland)*, *11*(12). https://doi.org/10.3390/app11125652

Lia Agustina. (2021, Desember 30). *Catatan Refleksi Akhir Tahun Penanggulangan Bencana 2021*. Badan Nasional Penanggulangan Bencana. https://www.bnpb.go.id/berita/catatan-refleksi-akhir-tahun-penanggulangan-bencana-2021

Limami, H., Guettioui, D., Dahi, O., Mehdi El Boustani, E., Manssouri, I., El Alami, A., & Khaldoun, A. (2023). Machine learning forecasting of thermal, mechanical and physicochemical properties of unfired clay bricks with plastic waste additives. *Materials Today: Proceedings*, *72*, 3509–3513. https://doi.org/10.1016/j.matpr.2022.08.218

Liu, F. T., Ting, K. M., & Zhou, Z. H. (2008). Isolation forest. *Proceedings - IEEE International Conference on Data Mining, ICDM*, 413–422. https://doi.org/10.1109/ICDM.2008.17

Maryati, S. (2018). Identification of Flood Prone Areas for Natural Disaster Mitigation using Geospatial Approach (A Case Study in Bone Bolango Regency, Gorontalo Province). *IOP Conference Series: Earth and Environmental Science*, *145*(1). https://doi.org/10.1088/1755-1315/145/1/012080

Marzukhi, S., Sidik, M. A. S. M., Nasir, H. M., Zainol, Z., & Ismail, M. N. (2018, Januari 5). Flood Detection and Warning System (FLoWS). *ACM International Conference Proceeding Series*. https://doi.org/10.1145/3164541.3164623

Miller, J. D., & Hutchins, M. (2017). The impacts of urbanisation and climate change on urban flooding and urban water quality: A review of the evidence concerning the United Kingdom. Dalam *Journal of Hydrology: Regional Studies* (Vol. 12, hlm. 345–362). Elsevier B.V. https://doi.org/10.1016/j.ejrh.2017.06.006

Miseta, T., Fodor, A., & Vathy-Fogarassy, Á. (2024). Surpassing early stopping: A novel correlation-based stopping criterion for neural networks. *Neurocomputing*, *567*. https://doi.org/10.1016/j.neucom.2023.127028

Mori, K. (2003). *Manual on Hydrology (Hidrologi Untuk Pengairan)* (S. Sosrodarsono & K. Takeda, Ed.). Association for International Technical Promotion, Tokyo, Jepang.

Motta, M., de Castro Neto, M., & Sarmento, P. (2021). A mixed approach for urban flood prediction using Machine Learning and GIS. *International Journal of Disaster Risk Reduction*, *56*. https://doi.org/10.1016/j.ijdrr.2021.102154

Narulita, I., & Ningrum, W. (2018). Extreme flood event analysis in Indonesia based on rainfall intensity and recharge capacity. *IOP Conference Series: Earth and Environmental Science*, *118*(1). https://doi.org/10.1088/1755-1315/118/1/012045

Pal, B., Tarafder, A. K., & Shahinur Rahman, M. D. (2020, Januari 10). Synthetic samples generation for imbalance class distribution with LSTM recurrent neural networks. *ACM International Conference Proceeding Series*. https://doi.org/10.1145/3377049.3377115

Pillai, A. S., & Tedesco, R. (2024). *Machine Learning and Deep Learning in Natural Language Processing* (A. S. Pillai & R. Tedesco, Ed.; CRC Press). CRC Press. https://doi.org/10.1201/9781003296126

Pradhan, B., Lee, S., Dikshit, A., & Kim, H. (2023). Spatial flood susceptibility mapping using an explainable artificial intelligence (XAI) model. *Geoscience Frontiers*, *14*(6), 101625. https://doi.org/10.1016/j.gsf.2023.101625

Sang, C., & Di Pierro, M. (2019). Improving trading technical analysis with TensorFlow Long Short-Term Memory (LSTM) Neural Network. *Journal of Finance and Data Science*, *5*(1), 1–11. https://doi.org/10.1016/j.jfds.2018.10.003

Sari, Y., Firmanul Arifin, Y., Novitasari, N., & Faisal, M. R. (2022). Deep Learning Approach Using the GRU-LSTM Hybrid Model for Air Temperature Prediction on Daily Basis. *Original Research Paper International Journal of Intelligent Systems and Applications in Engineering IJISAE*, *2022*(3), 430–436. www.ijisae.org

Septian, A., Elvarani, A. Y., Putri, A. S., Maulia, I., Damayanti, L., Pahlevi, M. Z., & Aswad, F. H. (2020). Identifikasi Zona Potensi Banjir Berbasis Sistem Informasi Geografis Menggunakan Metode Overlay dengan Scoring di Kabupaten Agam, Sumatera Barat. *Jurnal Geosains dan Remote Sensing*, *1*(1), 11–22. https://doi.org/10.23960/jgrs.2020.v1i1.25

Septian, B. A., & Kartini, U. T. (2023). Pemodelan Peramalan Beban Jangka Pendek untuk Subsistem Krian-Gresik Menggunakan Deep Learning LSTM-NN. *Jurnal Teknik Elektro UNESA*, *12*(2), 1–5.

Setyani, R. E., & Saputra, R. (2016). Flood-prone Areas Mapping at Semarang City by Using Simple Additive Weighting Method. *Procedia - Social and Behavioral Sciences*, *227*, 378–386. https://doi.org/10.1016/j.sbspro.2016.06.089

Shen, T., & Xiang, Y. (2023). Optimization of Probability Density Functions Applicable for Hourly Rainfall. *Atmosphere*, *14*(7). https://doi.org/10.3390/atmos14071100

Shiri M Farhad, Perumal Thinagaran, Mustapha Normawati, & Mohamed Raihani. (2023). *A Comprehensive Overview and Comparative Analysis on Deep Learning Models: CNN, RNN, LSTM, GRU*. https://doi.org/10.48550/arXiv.2305.17473

Soewarno. (1995). *Hidrologi : Aplikasi Metode Statistik untuk Analisa Data* (Jilid 1). NOVA.

Stanton, C., Katz, Gi., & Song, D. (2012). Isolation Forest for Anomaly Detection. Dalam *ACM Transactions on Knowledge Discovery from Data* (Vol. 6, Nomor 1).

Sukasno, STP. MM. (2021). *Hujan Ekstream Memicu Banjir di Semarang*. www.bmkg.go.id.

Tan, X., Yang, J., & Rahardja, S. (2022). Sparse random projection isolation forest for outlier detection. *Pattern Recognition Letters*, *163*, 65–73. https://doi.org/10.1016/j.patrec.2022.09.015

Wang, Z., & Qi, Z. (2023). Future Stock Price Prediction Based on Bayesian LSTM in CRSP. *Proceedings of the 3rd International Conference on Internet Finance*

and Digital Economy (ICIFDE 2023), 219–230. https://doi.org/10.2991/978-94-6463-270-5_1

Wen, X., & Li, W. (2023). Time Series Prediction Based on LSTM Attention LSTM Model. *IEEE Access*, *11*. https://doi.org/10.1109/ACCESS.2023.3276628

Wilks, D. S. (1995). *Statistical Methods in the Atmospheric Sciences* (R. Dmowska & R. J. Holton, Ed.). ACADEMIC PRESS, INC.

Ximenes, P. de S. M. P., Alves da Silva, A. S., Ashkar, F., & Stosic, T. (2021). Best-fit probability distribution models for monthly rainfall of Northeastern Brazil. *Water Science and Technology*, *84*(6), 1541–1556. https://doi.org/10.2166/wst.2021.304