

DAFTAR PUSTAKA

- Alsumaidaee, Y. A. M., Yaw, C. T., Koh, S. P., Tiong, S. K., Chen, C. P., Yusaf, T., Abdalla, A. N., Ali, K., & Raj, A. A. (2023). Detection of Corona Faults in Switchgear by Using 1D-CNN, LSTM, and 1D-CNN-LSTM Methods. *Sensors*, 23(6). <https://doi.org/10.3390/s23063108>
- Amalia, A., Zaidiah, A., & Isnainiyah, I. N. (2022, Juni). Prediksi kualitas Udara Menggunakan Algoritma K-Nearest Neighbor. *Jurnal Ilmiah Penelitian dan Pembelajaran Informatika*, 07(02), 496-507. <https://jurnal.stkipgritulungagung.ac.id/index.php/jipi/article/view/2843/1185>
- Batubara, N. A., & Awangga, R. M. (2020). *TUTORIAL OBJECT DETECTION PLATE NUMBER WITH CONVOLUTION NEURAL NETWORK (CNN)*. Kreatif.
- BBC News Indonesia. (2023, August 14). *Polusi udara Jakarta: PLTU berbasis batubara di sekitar ibu kota 'berkontribusi besar' mengotori udara*. BBC. Retrieved October 19, 2023, from <https://www.bbc.com/indonesia/articles/cndkdyzp269o>
- Chaniago, D., Zahara, A., & Ramadhani, I. S. (2020). *INDEKS STANDAR PENCEMAR UDARA (ISPU) SEBAGAI INFORMASI MUTU UDARA AMBIEN DI INDONESIA*. Direktorat Pengendalian Pencemaran Udara, Direktorat Jenderal Pengendalian Pencemaran Dan Kerusakan Lingkungan, Kementerian Lingkungan Hidup Dan Kehutanan. <https://ditppu.menlhk.go.id/portal/read/indeks-standar-pencemar-udara-ispu-sebagai-informasi-mutu-udara-ambien-di-indonesia>
- Chen, H., Guan, M., & Li, H. (2021). Air Quality Prediction Based on Integrated Dual LSTM Model. *IEEE Access*, 9, 93285–93297. <https://doi.org/10.1109/ACCESS.2021.3093430>
- Esfandiari, M. (2023, August 29). *Beberapa Penyakit Akibat Polusi Udara dan Cara Mencegahnya*. Siloam Hospitals. Retrieved October 19, 2023, from <https://www.siloamhospitals.com/en/informasi-siloam/artikel/tetap-sehat-dikepung-polusi-udara-bagaimana-caranya>
- Farzana SZ, Paudyal DR, Chadalavada S, Alam MJ. (2023). Prediction of Water Quality in Reservoirs: A Comparative Assessment of Machine Learning and Deep Learning Approaches in the Case of Toowoomba, Queensland, Australia. *Geosciences*, 13(10), 293. <https://doi.org/10.3390/geosciences13100293>
- Guessoum, S., Belda, S., Ferrandiz, J. M., Modiri, S., Raut, S., Dhar, S., Heinkelmann, R., & Schuh, H. (2022). The Short-Term Prediction of Length of Day Using 1D Convolutional Neural Networks (1D CNN). *Sensors*, 22(23).

- <https://doi.org/10.3390/s22239517>
- Hayashi, R. M. (2023, August 16). *Analisis Data: Polusi Udara di Jakarta Meningkat 166,67% Sejak Awal 2023*. kumparan. Retrieved October 19, 2023, from <https://kumparan.com/kumparannews/analisis-data-polusi-udara-di-jakarta-meningkat-166-67-sejak-awal-2023-20zl7UQIJxJ/full>
- Hodson, T. O. (2022). "Root-mean-Squared error (RMSE) or mean absolute error (MAE): when to use them or not." *Geoscientific Model Development*, 15, 5481-5487. DOI: [10.5194/gmd-15-5481-2022](https://doi.org/10.5194/gmd-15-5481-2022)
- Jarin, A., Trilaksono, B. R., Riza, H., Darmayanti, N. D. S., & Liawatimena, S. (2023). Prosiding Use Cases Artificial Intelligence Indonesia. *Embracing Collaboration for Research and Industrial Innovation in Artificial Intelligence*.
- Kementerian Lingkungan Hidup dan Kehutanan. (1997). *Peraturan Menteri Negara Lingkungan Hidup No. 45 Tahun 1997 tentang Indeks Standar Pencemar Udara (ISPU)*. Jakarta: KLHK.
- Khumaidi, A., Raafi, R., Permana Solihin, I., & Rs Fatmawati, J. (2020). Pengujian Algoritma Long Short-Term Memory untuk Prediksi Kualitas Udara dan Suhu Kota Bandung. *Jurnal Telematika*, 15(1).
- Kusuma, T. (2021). *Interpolasi linear dan spline sebagai impute handling missing values*. Medium. Retrieved October 20, 2024, from <https://taffanikusuma.medium.com/interpolasi-linear-dan-spline-sebagai-impute-handling-missing-values-83bb43d2bbb0>
- Kwon, T. H., Kim, J., Park, K. T., & Jung, K. S. (2022). Long Short-Term Memory-Based Methodology for Predicting Carbonation Models of Reinforced Concrete Slab Bridges: Case Study in South Korea. *Applied Sciences (Switzerland)*, 12(23). <https://doi.org/10.3390/app122312470>.
- Lee, K., Choi, C., Shin, D. H., & Kim, H. S. (2020). Prediction of heavy rain damage using deep learning. *Water (Switzerland)*, 12(7). <https://doi.org/10.3390/w12071942>
- Liu, Y., Wang, P., Li, Y., Wen, L., & Deng, X. (2022). Air quality prediction models based on meteorological factors and real-time data of industrial waste gas. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-13579-2>
- Listautin, S. K. (2024). BAB 3 Pencemaran Lingkungan. BUNGA RAMPAI KESEHATAN DAN LINGKUNGAN, 25.
- M. Alhussein, K. Aurangzeb and S. I. Haider, "Hybrid CNN-LSTM Model for Short-Term Individual Household Load Forecasting," in IEEE Access, vol. 8, pp. 180544-180557,

- 2020, doi: 10.1109/ACCESS.2020.3028281.
- Marinov, E., Petrova-Antonova, D., & Malinov, S. (2022). Time Series Forecasting of Air Quality: A Case Study of Sofia City. *Atmosphere*, 13(5). <https://doi.org/10.3390/atmos13050788>
- Mutaqin, W., Widiyanto, W. W., Munsarif, M., Mandias, G. F., Pungus, S. R., Widarman, A., Hapsari, W. K., Hardiyanti, S. A., Fatkhudin, A., Bisono, E. F., Anshori, M., Suryani, S., & Saputra, N. (2023). *Pengenalan Data Mining*. Yayasan Kita Menulis. 118-119.
- Natalia, T. (2023, August 26). *Ribuan Tewas Akibat Polusi, Kualitas Udara Bikin Khawatir*. CNBC Indonesia. Retrieved January 20, 2024, from <https://www.cnbcindonesia.com/research/20230826181347-128-466374/ribuan-tewas-akibat-polusi-kualitas-udara-bikin-khawatir>
- Ortu, Marco & Uras, Nicola & Conversano, Claudio & Destefanis, Giuseppe & Bartolucci, Silvia. (2021). On Technical Trading and Social Media Indicators in Cryptocurrency Price Classification Through Deep Learning.
- Pemerintah Provinsi DKI Jakarta. (2024). *Satu Data Jakarta*. Retrieved Agustus 7, 2024, from <https://satadata.jakarta.go.id/>
- Rahmah, A. A. L. (2024). *Analisis model multivariate long short-term memory untuk prakiraan kualitas udara DKI Jakarta berdasarkan data tahun 2010-2022* (Skripsi, Universitas Islam Negeri Syarif Hidayatullah Jakarta). Universitas Islam Negeri Syarif Hidayatullah Jakarta.
- Reyad, M., Sarhan, A., & Arafa, M. (2023). A modified Adam algorithm for deep neural network optimization. *Neural Computing and Applications*, 35(17095–17112). <https://doi.org/10.1007/s00521-023-08568-z>
- Rudra, Tiwari. (2023). Stabilizing the training of deep neural networks using Adam optimization and gradient clipping. *Indian Scientific Journal Of Research In Engineering And Management*, 07(01) doi: 10.55041/ijserem17594
- Sánchez-Reolid, R., López de la Rosa, F., López, M. T., & Fernández-Caballero, A. (2022). One-dimensional convolutional neural networks for low/high arousal classification from electrodermal activity. *Biomedical Signal Processing and Control*, 71. <https://doi.org/10.1016/j.bspc.2021.103203>
- Samal, K. K. R., Babu, K. S., & Das, S. K. (2021). Multi-directional temporal convolutional artificial neural network for PM2.5 forecasting with missing values: A deep learning approach. *Urban Climate*, 36. <https://doi.org/10.1016/j.uclim.2021.100800>
- Sari, M., Nur, S., Suhartawan, B., Anurogo, D., Aji, R., Mahlia, A., Abdurohim, Prasetyawati, N. D., Azis, W. A., & Syaharani, A. (2023). *KESEHATAN LINGKUNGAN: Yaasintha La Jopin Arisca Corpputy, 2024*
- IMPLEMENTASI MODEL DEEP LEARNING CNN-LSTM UNTUK PRAKIRAAN KUALITAS UDARA BERDASARKAN KADAR POLUTAN DI KOTA JAKARTA*
- UPN Veteran Jakarta, Fakultas Ilmu Komputer, S1 Informatika
- [www.upnvj.ac.id-www.library.upnvj.ac.id-www.repository.upnvj.ac.id]

- MEMAHAMI DAMPAK LINGKUNGAN TERHADAP KESEHATAN MANUSIA* (R. M. Sahara, Ed.). Get Press Indonesia.
- Shah, I., Jan, F., & Ali, S. (2022). Functional data approach for short-term electricity demand forecasting. *Mathematical Problems in Engineering*, 2022, Article 6709779. <https://doi.org/10.1155/2022/6709779>
- Siburian, S. (2020). *Pencemaran Udara dan Emisi Gas Rumah Kaca* (Efriza, Ed.). Kreasi Cendekia Pustaka.
- Sree, P. K., Raju, S., Archana, & Rao, R. (2023). *Fundamentals Of Deep Learning: Theory And Applications*. Academic Guru Publishing House.
- Swastika, W. (2023). *Hyperparameter Tuning pada Convolutional Neural Network (CNN) untuk Deteksi Malaria*. Ma Chung Press.
- Syaputri, D., Tanjung, R., Rahmawati, T. Y., Syaiful, A. Z., Patilaiaya, H. L., Manalu, S. M. H., Th Teddy, B. S., Buamona, S. A. M. U., & Suhartawan, B. (2023). *Penyehatan Udara* (M. Sari & R. M. Sahara, Eds.). Global Eksekutif Teknologi.
- Tharsanee, R. M., Soundariya, R. S., Kumar, A. S., Karthiga, M., & Sountharajan, S. (2021). Deep convolutional neural network-based image classification for COVID-19 diagnosis. In *Data Science for COVID-19 Volume 1: Computational Perspectives* (pp. 117–145). Elsevier. <https://doi.org/10.1016/B978-0-12-824536-1.00012-5>
- Wulandari, A. (2020). *ANALISIS KINERJA ALGORITMA CNN DAN LSTM UNTUK MEMPREDIKSI TINGGI MUKA AIR DI DKI JAKARTA, INDONESIA*. <http://digilib.mercubuana.ac.id/>
- Zhang, W., Li, H., & Yu, J. (2022). Improved Adam optimizer for deep learning applications. *Journal of Machine Learning Research*, 23(2), 145-159.