

## DAFTAR PUSTAKA

- Bai, M., & Li, M., 2023. A Presentation of Structures and Applications of Convolutional Neural Networks. *Highlights in Science, Engineering and Technology*, 61, pp. 180–187. <https://doi.org/10.54097/hset.v61i.10291>.
- Brigham, E.O., 1988. *The Fast Fourier Transform and Its Applications*. Pearson.
- Budi-Santoso, A., Beauducel, F., Nandaka, I.G.M.A., Humaida, H., Costa, F., Widiwijayanti, C., guchi, M., Métaixian, J.-P., Rudianto, I., Rozin, M., Sulistiyani, Nurdin, I., Kelfoun, K., Byrdina, S., Pinel, V., Fahmi, A.A., Laurin, A., Rizal, M.H., Dahamna, N., 2023. The Merapi Volcano Monitoring System. *Merapi Volcano*, pp. 409–436. [https://doi.org/10.1007/978-3-031-15040-1\\_13](https://doi.org/10.1007/978-3-031-15040-1_13).
- Budi-Santoso, A., Lesage, P., Dwiyono, S., Sumarti, S., Subandriyo, Surono, Jousset, P., Metaxian, J.-P., 2013. Analysis of the seismic activity associated with the 2010 eruption of Merapi Volcano, Java. *Journal of Volcanology and Geothermal Research*, 261, pp.153–170. <https://doi.org/10.1016/j.jvolgeores.2013.03.024>.
- Bullard, F. M., 1962. *Volcanoes in History, in Theory, in Eruption*.
- Chawla, N.V., Bowyer, K.W., Hall, L.O., Kegelmeyer, W.P., 2002. SMOTE: Synthetic Minority Over-sampling Technique. *Journal of Artificial Intelligence Research*, 16(16), pp. 321–357. <https://doi.org/10.1613/jair.953>.
- Chouet, B.A., 1996. Long-period volcano seismicity: its source and use in eruption forecasting. *Nature*, 380(6572), pp. 309–316. <https://doi.org/10.1038/380309a0>.
- Gertisser, R., Troll, V.R., Walter, T.R., Nandaka, I.G.M.A., Ratdomopurbo, A., 2023. *Merapi Volcano*. Springer Nature. <https://doi.org/10.1007/978-3-031-15040-1>.
- Gertisser, R., Troll, V.R., Nandaka, I.G.M.A., 2023. The Scientific Discovery of Merapi: From Ancient Javanese Sources to the 21st Century. *Merapi Volcano*, pp. 1–44. [https://doi.org/10.1007/978-3-031-15040-1\\_1](https://doi.org/10.1007/978-3-031-15040-1_1).
- Géron, A., 2019. *Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems*. O'Reilly Media, Inc.

- Harijoko, A., Marliyani, G.I., Wibowo, H.E., Freski, Y.R., Handini, E., 2023. The Geodynamic Setting and Geological Context of Merapi Volcano in Central Java, Indonesia. *Merapi Volcano*, pp. 89–109. [https://doi.org/10.1007/978-3-031-15040-1\\_4](https://doi.org/10.1007/978-3-031-15040-1_4).
- Holmberg, K., 2023. Merapi and Its Dynamic ‘Disaster Culture.’ *Merapi Volcano*, pp. 67–87. [https://doi.org/10.1007/978-3-031-15040-1\\_3](https://doi.org/10.1007/978-3-031-15040-1_3).
- Lavigne, F., Mei, E. T. W., Morin, J., Humaida, H., Moatty, A., de Bélizal, E., Hadmoko, D. S., Grancher, D., & Picquout, A., 2023. Physical Environment and Human Context at Merapi Volcano: A Complex Balance Between Accessing Livelihoods and Coping with Volcanic Hazards. *Merapi Volcano*, pp. 45–66. [https://doi.org/10.1007/978-3-031-15040-1\\_2](https://doi.org/10.1007/978-3-031-15040-1_2).
- Merapi Volcano Monitoring, 1996. Diakses 22 Maret 2024, (<https://www.ipgp.fr/~beaudu/vsi/monitor.html>).
- MGM, 2010. *Citra Satelit Puncak Gunungapi Merapi*. Museum Gunungapi Merapi, diakses 22 Maret 2024, (<https://mgm.slemankab.go.id/tag/citra-satelit-puncak-gunungapi-merapi/>).
- Minakami, T., 1960. Fundamental research for predicting volcanic eruptions. Part I. *Bulletin of The Earthquake Research Institute*, 38, pp.497-544.
- Nakano, M., & Sugiyama, D., 2022. Discriminating seismic events using 1D and 2D CNNs: applications to volcanic and tectonic datasets. *Earth, Planets and Space*, 74. <https://doi.org/10.1186/s40623-022-01696-1>.
- Nandaka, I.G.M.A., Sulistiyani, Suharna, Y., Putra, R., 2019. Overview of Merapi Volcanic Activities from Monitoring Data 1992–2011 Periods. *Journal of Disaster Research*, pp.18–26. <https://doi.org/10.20965/jdr.2019.p0018>.
- Ratdomopurbo, A., & Poupinet, G., 2000. An overview of the seismicity of Merapi volcano (Java, Indonesia), 1983–1994. *Journal of Volcanology and Geothermal Research*, 100(1-4), pp. 193–214. [https://doi.org/10.1016/s0377-0273\(00\)00137-2](https://doi.org/10.1016/s0377-0273(00)00137-2).
- Sarker, I.H., 2021. Machine Learning: Algorithms, Real-World Applications and Research Directions. *SN Computer Science*, 2(3), pp. 1-21. <https://doi.org/10.1007/s42979-021-00592-x>.
- Shearer, P.M., 2009. Introduction to Seismology. Cambridge University Press.

- Sidik, I., 2021. Penerapan Machine Learning untuk Klasifikasi Pola Gempa Vulkanik Menggunakan Algoritma Support Vector Machine Classifier. Skripsi. Yogyakarta: Program Studi Geofisika FMIPA UGM.
- Sidik, I., Saroji, S., Sulistyani, S., 2023. Implementation of machine learning for volcanic earthquake pattern classification using XGBoost algorithm. *Acta Geophysica*. <https://doi.org/10.1007/s11600-023-01154-w>.
- Singh, K., Mahajan, A., Mansotra, V., 2021. 1D-CNN based Model for Classification and Analysis of Network Attacks. *International Journal of Advanced Computer Science and Applications*, 12(11). <https://doi.org/10.14569/ijacsa.2021.0121169>.
- Tareen, S.A.K., & Tareen, F.K., 2023. Convolutional Neural Networks for Beginners. *SSRN*. <https://doi.org/10.2139/ssrn.4566310>.
- Yi, X., Xu, Y.-Y., Hu, Q., Krishnamoorthy, S., Li, W., Tang, Z., 2022. ASN-SMOTE: a synthetic minority oversampling method with adaptive qualified synthesizer selection. *Complex & Intelligent Systems*, 8(3), pp.2247–2272. <https://doi.org/10.1007/s40747-021-00638-w>.
- Yue, L., Qu, J., Zhou, S., Qu, B., Zhang, Y., Xu, Q., 2023. Seismic event classification based on a two-step convolutional neural network. *Journal of Seismology* 27, pp. 527–535. <https://doi.org/10.1007/s10950-023-10153-9>.
- Zobin, V.M., 2001. Seismic hazard of volcanic activity. *Journal of Volcanology and Geothermal Research*, 112(1-4), pp. 1–14. [https://doi.org/10.1016/s0377-0273\(01\)00230-x](https://doi.org/10.1016/s0377-0273(01)00230-x).
- Zobin, V.M., 2012. *Introduction to Volcanic Seismology*. Elsevier.