

## DAFTAR PUSTAKA

- [1] Badan Pusat Statistika, “transportasi dan komunikasi,” *banyumaskab.bps.go.id*, 2019.  
<https://banyumaskab.bps.go.id/backend/images/Bab8-ind.jpg> (accessed Nov. 01, 2023).
- [2] I. Nabawi, Y. Feriska, and W. Diantoro, “Analisis Dampak Kerusakan Jalan terhadap Pengguna Jalan dan Lingkungan di Ruas Jalan Pebatan - Rengaspendawa Brebes,” *Infratech Build. J.*, vol. 2, no. 1, pp. 28–34, 2021.
- [3] N. D. S. Putro Dowo, N. El Hafizah, T. Mca, and M. Firdausi, “Analisis Pengaruh Kerusakan Jalan Terhadap Laju Kendaraan( Studi Kasus Ruas Jalan Raya Tanjungsari –Raya Tambak Mayor, Kota Surabaya ),” *Semin. Nas. Sains dan Teknol. Terap. X* 2022, pp. 1–11, 2022.
- [4] D. S. Shakya, “Analysis of Artificial Intelligence based Image Classification Techniques,” *J. Innov. Image Process.*, vol. 2, no. 1, pp. 44–54, 2020, doi: 10.36548/jiip.2020.1.005.
- [5] A. N. Putri, S. Susanto, and S. Asmiatun, “Sistem Deteksi Kondisi Jalan Menggunakan Metode Z-Diff Pada Smartphone Android,” *Telematika*, vol. 11, no. 2, p. 65, 2018, doi: 10.35671/telematika.v11i2.716.
- [6] P. A. Rosyady, F. Fajeri, and M. A. Agustian, “Pengukuran Kedalaman dan Koordinat Jalan Berlubang Menggunakan Sensor Ultrasonik dan GPS Berbasis Internet Of Things (IoT),” *Avitec*, vol. 4, no. 1, p. 1, 2022, doi: 10.28989/avitec.v4i1.1061.
- [7] P. Wang, E. Fan, and P. Wang, “Comparative analysis of image classification algorithms based on traditional machine learning and deep learning,” *Pattern Recognit. Lett.*, vol. 141, pp. 61–67, 2020, doi: 10.1016/j.patrec.2020.07.042.
- [8] R. Sujatha, J. M. Chatterjee, N. Z. Jhanjhi, and S. N. Brohi, “Performance of deep learning vs machine learning in plant leaf disease detection,” *Microprocess. Microsyst.*, vol. 80, no. November 2020, p. 103615, 2021, doi: 10.1016/j.micpro.2020.103615.
- [9] S. Gupta, P. Sharma, D. Sharma, V. Gupta, and N. Sambyal, “Detection and localization of potholes in thermal images using deep neural networks,”

- Multimed. Tools Appl.*, vol. 79, no. 35–36, pp. 26265–26284, 2020, doi: 10.1007/s11042-020-09293-8.
- [10] E. N. Ukhwah, E. M. Yuniarno, and Y. K. Suprapto, “Asphalt Pavement Pothole Detection using Deep learning method based on YOLO Neural Network,” *Proc. - 2019 Int. Semin. Intell. Technol. Its Appl. ISITIA 2019*, pp. 35–40, 2019, doi: 10.1109/ISITIA.2019.8937176.
  - [11] F. H. Yoga Triardhana, Bandi Sasmito, “Identifikasi Kerusakan Jalan Menggunakan Metode Deep Learning (Dl) Model Convolutional Neural Networks (Cnn),” *J. Geod. Undip*, no. Dl, pp. 1–8, 2020.
  - [12] A. R. Batubara, “DESIGN OF RIGID PAVEMENT OF GEJAYAN INTERSECTION,” pp. 4–18, 2018.
  - [13] Departemen Pekerjaan Umum, “Petunjuk Pemeliharaan Jalan Kabupaten,” 1983.
  - [14] K. C. Kirana, “Pengolahan Citra Digital: Teori dan Penerapan Pengolahan Citra Digital pada Deteksi Wajah.” p. 68, 2021.
  - [15] C. Zonyfar, “Pengolahan Citra Digital.pdf.” p. 138, 2020.
  - [16] V. Tyagi, “Understanding Digital Image Processing.” 2018, doi: 1351342673.
  - [17] K. Chhaya, A. Khanzode, and R. D. Sarode, “Advantages and Disadvantages of Artificial Intelligence and Machine Learning: a Literature Review,” *Int. J. Libr. Inf. Sci.*, vol. 9, no. 1, pp. 30–36, 2020, [Online]. Available: <http://www.iaeme.com/IJLIS/index.asp> <http://www.iaeme.com/IJLIS/issues.asp?JType=IJLIS&VType=9&IType=1>JournalImpactFactor%0Awww.jifactor.com<http://www.iaeme.com/IJLIS/issues.asp?JType=IJLIS&VType=9&IType=1>.
  - [18] W. G. de Sousa, E. R. P. de Melo, P. H. D. S. Bermejo, R. A. S. Farias, and A. O. Gomes, “How and where is artificial intelligence in the public sector going? A literature review and research agenda,” *Gov. Inf. Q.*, vol. 36, no. 4, p. 101392, 2019, doi: 10.1016/j.giq.2019.07.004.
  - [19] L. Alzubaidi *et al.*, *Review of deep learning: concepts, CNN architectures, challenges, applications, future directions*, vol. 8, no. 1. Springer

- International Publishing, 2021.
- [20] Y. Guo, Y. Liu, A. Oerlemans, S. Lao, S. Wu, and M. S. Lew, “Deep learning for visual understanding: A review,” *Neurocomputing*, vol. 187, pp. 27–48, 2016, doi: 10.1016/j.neucom.2015.09.116.
  - [21] Y. Lecun, Y. Bengio, and G. Hinton, “Deep learning,” *Nature*, vol. 521, no. 7553, pp. 436–444, 2015, doi: 10.1038/nature14539.
  - [22] K. O. Shea and R. Nash, “An Introduction to Convolutional Neural Networks,” pp. 1–11.
  - [23] N. Aloysius and M. Geetha, “A review on deep convolutional neural networks,” *Proc. 2017 IEEE Int. Conf. Commun. Signal Process. ICCSP 2017*, vol. 2018-Janua, pp. 588–592, 2017, doi: 10.1109/ICCP.2017.8286426.
  - [24] S. Albawi and T. A. Mohammed, “Understanding of a Convolutional Neural Network,” 2017.
  - [25] S. Sharma and S. Sharma, “□ ACTIVATION FUNCTIONS IN NEURAL NETWORKS,” vol. 4, no. 12, pp. 310–316, 2020.
  - [26] T. Szandala, *Review and Comparison of Commonly Used Activation Functions For Deep Neural Networks*. 2021.
  - [27] A. Luque, A. Carrasco, A. Martín, and A. de las Heras, “The impact of class imbalance in classification performance metrics based on the binary confusion matrix,” *Pattern Recognit.*, vol. 91, pp. 216–231, 2019, doi: 10.1016/j.patcog.2019.02.023.
  - [28] M. Fahmy Amin, “Confusion Matrix in Binary Classification Problems: A Step-by-Step Tutorial,” *J. Eng. Res.*, vol. 6, no. 5, pp. 0–0, 2022, doi: 10.21608/erjeng.2022.274526.
  - [29] A. D. Govindasamy, “Leveraging Distributed Computing with RQ and Streamlit for Efficient Task Leveraging Distributed Computing with RQ and Streamlit for Efficient Task Execution,” no. August, 2023, doi: 10.5281/zenodo.8271453.