

## DAFTAR PUSTAKA

- [1] T. Muhandri, F. M. Taqi, Subarna, and D. D. Widiawati, "Drying Characteristics of Herb Leaves Using Fluidized Bed Drier and Tray Drier," *Jurnal Teknologi dan Industri Pangan*, vol. 34, no. 2, pp. 187–199, 2023, doi: 10.6066/jtip.2023.34.2.187.
- [2] A. I. Saputra, I. Weni, and U. Khaira, "Implementasi Metode Convolutional Neural Network Untuk Deteksi Penyakit Pada Tanaman Kopi Arabika Melalui Citra Daun Berbasis Android," *Decode: Jurnal Pendidikan Teknologi Informasi*, vol. 4, no. 1, pp. 41–51, 2023, doi: 10.51454/decode.v4i1.231.
- [3] M. Ibrahim and U. Latifa, "Application of The Yolo-v8 Algorithm in Website-Based Detection of Harvest Time of Pakcoy Crops," *Jurnal Mahasiswa Teknik Informatika*, vol. 7, no. 4, pp. 2489–2495, 2023.
- [4] M. Mufid Bachri, E. D. Astuti, and H. Sibyan, "Clean Energy and Smart Technology Image Classification Recognition Of Gamelan Musical Instrument Types Using Cnn Method Android Based," vol. 02, no. 02, pp. 56–70, 2024.
- [5] M. A. A. Mosleh and A. H. Gumaei, "An Efficient Bidirectional Android Translation Prototype for Yemeni Sign Language Using Fuzzy Logic and CNN Transfer Learning Models," *IEEE Access*, vol. 12, no. November, pp. 191030–191045, 2024, doi: 10.1109/ACCESS.2024.3512455.
- [6] M. F. Golfantara, "Penggunaan Algoritma Yolo Identifikasi Rempah-Rempah," vol. 12, no. 3, pp. 3867–3873, 2024.
- [7] I. C. Sari, "Integrasi Model Deep Learning Efficientnet-B0 Untuk Deteksi Penyakit Daun Tomat Pada Aplikasi Seluler Berbasis Flutter," *Djtechno: Jurnal Teknologi Informasi*, vol. 5, no. 2, pp. 332–346, 2024, doi: 10.46576/djtechno.v5i2.4651.
- [8] M. A. K. Majid and D. Ariatmanto, "Analisis Perbandingan Kinerja Model YOLO11 dan YOLOv8 dalam Identifikasi Penyakit pada Daun Tomat," *Jurnal Bangkit Indonesia*, vol. 14, no. 2, pp. 63–72, 2025, doi: 10.52771/bangkitindonesia.v14i2.459.
- [9] E. N. Rahmawati *et al.*, "Deteksi Penyakit Daun Tomat Real-Time pada Platform Android Berbasis Convolutional Neural Network Indonesia Real-

Time Tomato Leaf Disease Detection on Android Platform Based on Convolutional Neural Network,” vol. 5, no. 8, pp. 2402–2415, 2025.

- [10] B. Erwanto, A. I. Pradana, and D. Hartanti, “Pengembangan Sistem Deteksi Penyakit Tanaman Tomat Melalui Citra Daun dengan Metode You Only Look Once (YOLO) Berbasis Android,” *G-Tech: Jurnal Teknologi Terapan*, vol. 8, no. 3, pp. 1453–1463, 2024, doi: 10.33379/gtech.v8i3.4327.
- [11] K. M. Azhar, I. Santoso, and A. Adi, “Implementasi Deep Learning Menggunakan Metode Convolutional Neural Network Dan Algoritma Yolo Dalam Low Vision,” *Transient: Jurnal Ilmiah Teknik Elektro*, vol. 10, no. 3, pp. 502–509, 2021.
- [12] I. Akbari, D. Hartama, and A. Wanto, “Optimization of Efficientnet-B0 Architecture To Improve the Accuracy of Glaucoma Disease Classification,” *JITK (Jurnal Ilmu Pengetahuan dan Teknologi Komputer)*, vol. 11, no. 2, pp. 342–352, 2025, doi: 10.33480/jitk.v11i2.7140.
- [13] Al Fathir Rizal Januar, J. Indra, D. S. Kusumaningrum, and S. Faisal, “Application of Convolutional Neural Network (CNN) Algorithm with ResNet-101 Architecture for Monkey Pox Detection in Human,” *Journal of Applied Informatics and Computing*, vol. 9, no. 3, pp. 1006–1012, 2025, doi: 10.30871/jaic.v9i3.9621.
- [14] A. Wijaya and N. Rachmat, “Klasifikasi Penyakit Daun Mangga Menggunakan YOLOv11 Berbasis Deep Learning dan Computer Vision TIN : Terapan Informatika Nusantara,” vol. 6, no. 8, pp. 1444–1451, 2026, doi: 10.47065/tin.v6i8.9168.
- [15] N. Sary, H. Handoko Syahputra Pasaribu, R. Juliana Situmeang, and R. Darmawan Darus, “Implementasi Algoritma YOLOv11 Dan Roboflow Untuk Deteksi Tingkat Kematangan Anggur Berbasis Web,” *Media Teknologi Informasi Dan Komputer Jurnal*, vol. 9, no. <https://journal.universitasmulia.ac.id/index.php/metik/issue/view/70>, pp. 264–274, 2025, doi: 10.47002/metik.v9i2.1121.
- [16] M. F. Golfantara, “Penggunaan Algoritma Yolo Identifikasi Rempah-Rempah,” vol. 12, no. 3, pp. 3867–3873, 2024.
- [17] N. Khairunisa, . C., and A. Jamaludin, “Analisis Perbandingan Algoritma Cnn Dan Yolo Dalam Mengidentifikasi Kerusakan Jalan,” *Jurnal*

- Informatika dan Teknik Elektro Terapan*, vol. 12, no. 3, 2024, doi: 10.23960/jitet.v12i3.4434.
- [18] E. N. Rahmawati *et al.*, “Deteksi Penyakit Daun Tomat Real-Time pada Platform Android Berbasis Convolutional Neural Network Indonesia Real-Time Tomato Leaf Disease Detection on Android Platform Based on Convolutional Neural Network,” vol. 5, no. 8, pp. 2402–2415, 2025.
  - [19] B. Erwanto, A. I. Pradana, and D. Hartanti, “Pengembangan Sistem Deteksi Penyakit Tanaman Tomat Melalui Citra Daun dengan Metode You Only Look Once (YOLO) Berbasis Android,” *G-Tech: Jurnal Teknologi Terapan*, vol. 8, no. 3, pp. 1453–1463, 2024, doi: 10.33379/gtech.v8i3.4327.
  - [20] J. Huang, J. Chai, and S. Cho, “Deep Learning In Finance and Banking,” *Frontiers of Business Research in China*, vol. 14, no. 1, 2020.
  - [21] D. T. Ananto *et al.*, “Edukasi dan Pelatihan Pengenalan Machine Learning dan Computer Vision Untuk Mengeksplorasi Potensi Visual,” *Prosiding Seminar Nasional Pengabdian Masyarakat LPPM UMJ*, vol. 1, no. 1, pp. 1–8, 2023.
  - [22] A. Bimanjaya, H. H. Handayani, and R. F. Rachmadi, “Penggunaan Deep Learning dan Post-Processing Algoritma Douglas-Peucker untuk Ekstraksi Jaringan Jalan pada Area Urban dari Orthophoto,” *Geoid*, vol. 19, no. 2, pp. 371–385, 2024, doi: 10.12962/geoid.v19i2.1127.
  - [23] N. T. S. Saptadi *et al.*, *Deep Learning Teori, Algoritma, dan Aplikasi*, no. March. 2025.
  - [24] S. Nurmani, A. Darmawahyuni, A. I. Sapitri, M. N. Rachmatullah, Firdaus, and B. Tutuko, “Pengenalan Deep Learning dan Implementasinya,” p. 137, 2021.
  - [25] E. Naf’an, F. Islami, and G. Gushelmi, *Dasar-dasar Deep Learning Dan Contoh Aplikasinya*. 2022.
  - [26] F. Marpaung, F. Aulia, and R. C. Nabila, *Computer Vision Dan Pengolahan Citra Digital*. 2022.
  - [27] S. Cong and Y. Zhou, *A review of convolutional neural network architectures and their optimizations*, vol. 56, no. 3. Springer Netherlands, 2023. doi: 10.1007/s10462-022-10213-5.

- [28] B. Raharjo, *Deep Learning dengan Python*. 2022.
- [29] R. Patel and S. Patel, “A comprehensive study of applying convolutional neural network for computer vision,” *International Journal of Advanced Science and Technology*, vol. 29, no. 6 Special Issue, pp. 2161–2174, 2020.
- [30] M. Valizadeh and S. J. Wolff, “Convolutional Neural Network applications in additive manufacturing: A review,” *Advances in Industrial and Manufacturing Engineering*, vol. 4, no. October 2021, 2022, doi: 10.1016/j.aime.2022.100072.
- [31] M. A. K. Raiaan *et al.*, “A systematic review of hyperparameter optimization techniques in Convolutional Neural Networks,” *Decision Analytics Journal*, vol. 11, no. April, p. 100470, 2024, doi: 10.1016/j.dajour.2024.100470.
- [32] Muchamad Nur Kholis, “Mengenal Convolutional Neural Network (CNN),” <https://muchamadnurkholis.medium.com/mengenal-convolutional-neural-network-cnn-36969caa709>.
- [33] N. T. S. Saptadi *et al.*, *Deep Learning Teori, Algoritma, dan Aplikasi*, no. March. 2025.
- [34] A. Gurov, E. Evmenova, and P. Chunaev, “Supervised community detection in multiplex networks based on layers convex flattening and modularity optimization,” *Procedia Comput. Sci.*, vol. 212, no. C, pp. 181–190, 2022, doi: 10.1016/j.procs.2022.11.002.
- [35] Richo, “Analisis Performa Berbagai Arsitektur Convolutional Neural Network (CNN) terhadap Ketepatan Deteksi Cacat pada Kemasan Snack Box,” *Journal of Advances in Information and Industrial Technology*, vol. 5, no. 1, pp. 31–42, 2023, doi: 10.52435/jaiit.v5i1.377.
- [36] I. Rafi Alfiandi, M. Rizki Fadhil, and R. Samsinar, “Analisis Performa Convolutional Neural Network (CNN) dan Naive Bayes dalam Face Recognition: Akurasi dan Kompleksitas,” *Seminar Nasional & Call for Paper Hubisintek*, pp. 284–294, 2024.
- [37] M. Harahapp and A. M. Husein, “Penerapan Efficient-Net Dalam Mengklasifikasi Kanjer Kulit,” *Penambahan Natrium Benzoat Dan Kalium Sorbat (Antiinversi) Dan Kecepatan Pengadukan Sebagai Upaya Penghambatan Reaksi Inversi Pada Nira Tebu*, 2014.

- [38] W. M. Ardana, "Optimization of Convolutional Neural Network Algorithm with Efficientnet-B0 and Resnet-50 Architecture for Waste Type Classification Optimasi Algoritma Convolutional Neural Network dengan Arsitektur Efficientnet-B0 dan Resnet-50 untuk Klasifikasi Jenis Sa," vol. 5, no. October, pp. 1274–1286, 2025.
- [39] M. Akhiar, "Penerapan Deep Learning Menggunakan Convolutional Neural Network Pada Klasifikasi Motif Batik," 2021, [Online]. Available: <http://repository.uin-suska.ac.id/58030/>
- [40] S. Poonkuntran, R. K. Dhanraj, and B. Balusamy, *Object Detection with Deep Learning Models: Principles and Applications*. 2022. doi: 10.1201/9781003206736.
- [41] Y. Yanto, F. Aziz, and I. Irmawati, "Yolo-V8 Peningkatan Algoritma Untuk Deteksi Pemakaian Masker Wajah," *JATI (Jurnal Mahasiswa Teknik Informatika)*, vol. 7, no. 3, pp. 1437–1444, 2023, doi: 10.36040/jati.v7i3.7047.
- [42] M. Fikry, M. Ula, and M. Yani, "Intelligent Systems And Applications In Engineering Performance Analysis of Smart Technology with Face Detection using YOLOv3 and InsightFace for Student Attendance Monitoring," 2024.
- [43] Y. Dai, W. Liu, H. Li, and L. Liu, "Efficient Foreign Object Detection between PSDs and Metro Doors via Deep Neural Networks," *IEEE Access*, vol. 8, pp. 46723–46734, 2020, doi: 10.1109/ACCESS.2020.2978912.
- [44] S. Du, P. I. N. Zhang, B. Zhang, and H. Xu, "Weak and occluded vehicle detection in complex infrared environment based on improved YOLOv4," vol. XX, pp. 1–10, 2021, doi: 10.1109/ACCESS.2021.3057723.
- [45] W. Ji, Y. Pan, B. Xu, and J. Wang, "A Real-Time Apple Targets Detection Method for Picking Robot Based on ShufflenetV2-YOLOX," 2022.
- [46] H. Achmad, A. Pramudwiatmoko, M. Satrio Gumilang, B. Al Karim, and H. Wiyono, "Analisis Kinerja Model Deteksi Objek Yolo, Ssd, dan Faster R-Cnn pada Citra Penglihatan Malam untuk Pengenalan Tindak Kejahatan," *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 12, no. 1, pp. 145–152, 2025, doi: 10.25126/jtiik.2025128409.
- [47] I. A. Putra, "Analisis Performa Arsitektur Model You Only Look Once (YOLO) Versi 7 Dalam Melakukan Segmentasi Jenis Virus Dari Citra Mikroskop," p. 136, 2023.

- [48] Muh Fachrisyam, Dolly Indra, and Mardiyah Hasnawi, “Implementasi Metode YOLO Dalam Mendeteksi Jenis Sampah Berbasis Computer Vision,” *Literatur Informatika & Komputer*, vol. 2, no. 1, p. pp xx-xx, 2025.
- [49] “Home - Ultralytics YOLO Docs.” Accessed: Apr. 03, 2026. [Online]. Available: <https://docs.ultralytics.com/>
- [50] R. Khanam and M. Hussain, “YOLOv11: An Overview of the Key Architectural Enhancements,” vol. 2024, pp. 1–9, 2024, [Online]. Available: <http://arxiv.org/abs/2410.17725>
- [51] L. Hakim, *Rempah & Herba Kebun-Pekarangan Rumah Masyarakat*, no. 164. 2022.
- [52] D. Ardianto, J. Jasril, S. Sanjaya, L. Handayani, and F. Syafria, “Klasifikasi Citra Daging Sapi dan Babi Menggunakan Convolutional Neural Network (CNN) dengan Arsitektur EfficientNet-B2 dan Augmentasi Data,” *Jurnal Informatika Universitas Pamulang*, vol. 8, no. 2, pp. 153–164, 2023, doi: 10.32493/informatika.v8i2.30587.
- [53] B. Zoph and Q. V Le, “Searching for activation functions,” *6th International Conference on Learning Representations, ICLR 2022 - Workshop Track Proceedings*, pp. 1–13, 2022.
- [54] L. Batch and S. Challenges, “Batch Size Selection in Deep Learning: A Comprehensive Analysis of Training Dynamics and Performance Optimization,” 2024.