

## DAFTAR PUSTAKA

- Alshanketi, F., Alharbi, A., Kuruvilla, M., Mahzoon, V., Siddiqui, S. T., Rana, N., & Tahir, A. (2025). Pneumonia Detection from Chest X-Ray Images Using Deep Learning and Transfer Learning for Imbalanced Datasets. *Journal of Imaging Informatics in Medicine*, 38(4), 2021–2040. <https://doi.org/10.1007/s10278-024-01334-0>
- Ariawan, K. R., Ekayana, A. A. G., Indrawan, I. P. Y., Winatha, K. R., & Setiawan, I. N. A. F. (2025). Performance Comparasion of DenseNet-121 and MobileNetV2 for Cacao Fruit Disease Image Classification. *Indonesian Journal of Data and Science*, 6(1), 30–38. <https://doi.org/10.56705/ijodas.v6i1.233>
- Arulananth, T. S., Prakash, S. W., Ayyasamy, R. K., Kavitha, V. P., Kuppusamy, P. G., & Chinnasamy, P. (2024). Classification of Paediatric Pneumonia Using Modified DenseNet-121 Deep-Learning Model. *IEEE Access*, 12(February), 35716–35727. <https://doi.org/10.1109/ACCESS.2024.3371151>
- Arvio, Y., Kusuma, D. T., Sangadji, I. B., & Dewantara, E. K. (2024). Penerapan Metode Convolution Neural Network (CNN) Dalam Proses Pengolahan Citra Untuk Mendeteksi Cacat Produksi Pada Produk Masker. *Faktor Exacta*, 16(4), 340–350. <https://doi.org/10.30998/faktorexacta.v16i4.20073>
- Azhar, A., Siswoyo, B., Pratama, D., Anam, K., & Susana, H. (2024). Penerapan Algoritma Convolutional Neural Network (Cnn) Untuk Diagnosa Tumor Otak. *JATI (Jurnal Mahasiswa Teknik Informatika)*, 8(2), 1797–1801. <https://doi.org/10.36040/jati.v8i2.8242>
- Bhandari, M., Shahi, T. B., Siku, B., & Neupane, A. (2022). Explanatory classification of CXR images into COVID-19, Pneumonia and Tuberculosis using deep learning and XAI. *Computers in Biology and Medicine*, 150(June), 106156. <https://doi.org/10.1016/j.combiomed.2022.106156>
- Bintang, Y. K., & Imaduddin, H. (2024). Pengembangan Model Deep Learning Untuk Deteksi Retinopati Diabetik Menggunakan Metode Transfer Learning. *JUPI (Jurnal Ilmiah Penelitian Dan Pembelajaran Informatika)*, 9(3), 1442–1455. <https://doi.org/10.29100/jupi.v9i3.5588>
- Brawijaya, U., Izzan Kautsar, A. ', Rahayudi, B., & Muflikhah, L. (2017). *Fakultas Ilmu Komputer ANALISIS PERFORMA MODEL CONVOLUTIONAL NEURAL NETWORK DALAM MENDETEKSI PENYAKIT PNEUMONIA*. 1(1), 2548–2964. <http://j-ptiik.ub.ac.id>
- Dhewayani, F. N., Amelia, D., Alifah, D. N., Sari, B. N., & Jajuli, M. (2022). Implementasi K-Means Clustering untuk Pengelompokkan Daerah Rawan Bencana Kebakaran Menggunakan Model CRISP-DM. *Jurnal Teknologi Dan Informasi*, 12(1), 64–77. <https://doi.org/10.34010/jati.v12i1.6674>
- Gunawan, D., & Setiawan, H. (2022). Convolutional Neural Network dalam Citra Medis. *KONSTELASI: Konvergensi Teknologi Dan Sistem Informasi*, 2(2), 376–390. <https://doi.org/10.24002/konstelasi.v2i2.5367>
- Gundabatini, S. G. (2024). Pneumonia Detection using CNN, Resnet and DenseNet. *International Journal for Research in Applied Science and Engineering Technology*, 12(3), 1680–1686. <https://doi.org/10.22214/ijraset.2024.59145>

- Hekmatyar, H. D., Saputra, W. A., & Ramdani, C. (2022). Klasifikasi Pneumonia Dengan Deep Learning Faster Region Convolutional Neural Network Arsitektur VGG16 dan ResNet50. *InComTech : Jurnal Telekomunikasi Dan Komputer*, 12(3), 186. <https://doi.org/10.22441/incomtech.v12i3.15112>
- Herman Bedi Agtriadi, M Habibi, & Zakiyah Misfazilah. (2025). Classification of Breast Cancer Magnetic Resonance Imaging (MRI) Using Convolutional Neural Network (CNN) with VGG19 and AlexNet Architecture. *Jurnal E-Komtek (Elektro-Komputer-Teknik)*, 9(1), 26–41. <https://doi.org/10.37339/e-komtek.v9i1.2501>
- Jatnika, H., Purwanto, Y. S., & Rifai, M. F. (2023). *Jurnal E-Komtek*. 7(2), 211–222.
- Kareem, A., Liu, H., & Velisavljevic, V. (2023). A federated learning framework for pneumonia image detection using distributed data. *Healthcare Analytics*, 4(May), 100204. <https://doi.org/10.1016/j.health.2023.100204>
- Kateb, Y., Megloul, H., & Khebli, A. (2023). Coronavirus Diagnosis Based on Chest X-Ray Images and Pre-Trained DenseNet-121. *Revue d'Intelligence Artificielle*, 37(1), 23–28. <https://doi.org/10.18280/ria.370104>
- Kaushik, P., Jain, E., Kukreja, V., Hariharan, S., Krishnamoorthy, M., Ahuja, V., Bhattacharjee, A., Kaushal, R. K., & Chen, S. Y. (2025). Modelling radiological features fusion and explainable AI in pneumonia detection: A graph-based deep learning and transformer approach. *Results in Engineering*, 26(May). <https://doi.org/10.1016/j.rineng.2025.105225>
- Khan, A. A., Shahid, M. M. A., Bashir, R. N., Iqbal, S., Shahid, A. S. A., Maqbool, J., & Wechtaisong, C. (2023). Detection of Omicron Caused Pneumonia from Radiology Images Using Convolution Neural Network (CNN). *Computers, Materials and Continua*, 74(2), 3743–3761. <https://doi.org/10.32604/cmc.2023.033924>
- Kim, H. E., Cosa-Linan, A., Santhanam, N., Jannesari, M., Maros, M. E., & Ganslandt, T. (2022). Transfer learning for medical image classification: a literature review. *BMC Medical Imaging*, 22(1), 1–13. <https://doi.org/10.1186/s12880-022-00793-7>
- Kundu, R., Das, R., Geem, Z. W., Han, G. T., & Sarkar, R. (2021). Pneumonia detection in chest X-ray images using an ensemble of deep learning models. *PLoS ONE*, 16(9 September). <https://doi.org/10.1371/journal.pone.0256630>
- Liu, X. (2025). Deep learning in Chest X-Ray Pneumonia Diagnosis: A Review of Research Advances. *Advances in Engineering Technology Research*, 14(1), 1446. <https://doi.org/10.56028/aetr.14.1.1446.2025>
- Mahamud, E., Fahad, N., Assaduzzaman, M., Zain, S. M., Goh, K. O. M., & Morol, M. K. (2024). An explainable artificial intelligence model for multiple lung diseases classification from chest X-ray images using fine-tuned transfer learning. *Decision Analytics Journal*, 12(June), 100499. <https://doi.org/10.1016/j.dajour.2024.100499>
- Nurhidayat, R., & Dewi, K. E. (2023). KOMPUTA : Jurnal Ilmiah Komputer dan Informatika PENERAPAN ALGORITMA K-NEAREST NEIGHBOR DAN FITUR EKSTRAKSI N-GRAM DALAM ANALISIS SENTIMEN BERBASIS ASPEK. *Komputa : Jurnal Ilmiah Komputer Dan Informatika*, 12(1), 91–100. <https://www.kaggle.com/datasets/hafidahmusthaanah/skincare->

review?select=00.+Review.csv.

- Parajun, F., Aziza, R. N., & Kuswardani, D. (2022). Implementasi Algoritma Convolutional Neural Network Dalam Mengklasifikasi Kesegaran Buah Berdasarkan Citra Buah. *Kilat*, 11(1), 1–9. <https://doi.org/10.33322/kilat.v10i2.1458>
- Pasha, R. K., & Budiman, K. (2025). Optimasi Model CNN Berbasis Transfer Learning Untuk Klasifikasi Pneumonia pada Citra X-Ray Dada. *Smatika Jurnal*, 15(01), 167–178. <https://doi.org/10.32664/smatika.v15i01.1985>
- R, P., Gajendran, G., Boulaaras, S., & Tantawy, S. S. (2025). PediaPulmoDx: Harnessing cutting edge preprocessing and explainable AI for pediatric chest X-ray classification with DenseNet121. *Results in Engineering*, 25(December 2024), 104320. <https://doi.org/10.1016/j.rineng.2025.104320>
- Samsurizal, S., Fikri, M., & Pasra, N. (2021). Singular Value Decomposition (SVD) Berdasarkan Intensitas Pencahayaannya Untuk Pengenal Wajah. *Setrum : Sistem Kendali-Tenaga-Elektronika-Telekomunikasi-Komputer*, 10(1), 6–14. <https://doi.org/10.36055/setrum.v10i1.10376>
- Sari, E. F., Rumende, M., & Harimurti, K. (2016). Faktor-Faktor yang Berhubungan dengan Diagnosis Pneumonia pada Pasien Usia Lanjut Factors Related to Diagnosis of Community-Acquired Pneumonia in the Elderly. *Jurnal Penyakit Dalam Indonesia* |, 3(4), 183–191.
- Schröer, C., Kruse, F., & Gómez, J. M. (2021). A systematic literature review on applying CRISP-DM process model. *Procedia Computer Science*, 181(2019), 526–534. <https://doi.org/10.1016/j.procs.2021.01.199>
- Sejati, U., & Nurbaiti, N. (2021). Literatur Review: Analisa Teknik Pemeriksaan CT-Scan Thorax Pada Kasus Terkonfirmasi Positif Covid-19. *Webinar Nasional Pakar Ke 4 Tahun 2021*, 1(1), Pp. 1.1.1-1.1.8. <https://publikasi.kocenin.com/index.php/pakar/article/view/150>
- Shpakov, O. N., & Bogomolov, G. V. (2014). Pengolahan citra digital untuk mendeteksi obyek menggunakan pengolahan warna model normalisasi RGB. *Seminar Nasional Teknologi Informasi & Komunikasi Terapan 2011*, 1(1), 329–332.
- Şimşek, Ç., Özkorucuklu, S., & Işıldak, B. (2025). Pneumonia detection in chest X-ray images using convolutional neural networks. *The European Research Journal*, 11(5), 1–8. <https://doi.org/10.18621/eurj.1641267>
- Siswipraptini, P. C., Fadiarora, A. S., & Sikumbang, H. (2023). MODEL KLASIFIKASI BERBASIS MACHINE LEARNING UNTUK PERPANJANGAN MASA JABATAN KEPALA. *Jurnal Indonesia : Manajemen Informatika dan Komunikasi*. *Jurnal Indonesia : Manajemen Informatika Dan Komunikasi*, 4(1), 255–264. <http://www.journal.amikindonesia.ac.id/index.php/jimik/article/view/167>
- Surbakti, N. M., Angelyca Angelyca, Anita Talia, Cecilia Br Perangin-Angin, Dina Olivia Nainggolan, Nia Devi Friskauly, & Sikap Ruth Br Tumorang. (2024). Penggunaan Bahasa Pemrograman Python dalam Pembelajaran Kalkulus Fungsi Dua Variabel. *Algoritma : Jurnal Matematika, Ilmu Pengetahuan Alam, Kebumihan Dan Angkasa*, 2(3), 98–107. <https://doi.org/10.62383/algoritma.v2i3.67>

- Sutanti, A., Komaruddin, M., Damayanti, P., & Studi Sistem Informasi Metro, P. U. (2020). Sutanti, A., MZ, M. K., Mustika, M., & Damayanti, P. (2020). Rancang Bangun Aplikasi Perpustakaan Keliling Menggunakan Pendekatan Terstruktur. *Komputa: Jurnal Ilmiah Komputer dan Informatika*, 9(1), 1-8. *Jurnal Ilmiah Komputer Dan Informatika (KOMPUTA)*, 9(1).
- Usman, M., Nasir, I. A., Saeed, R., Nazir, H., & Asad, M. (2024). A Deep Learning Approach for Multi-Label Chest X-ray Diagnosis Using DenseNet-121. *IET Conference Proceedings*, 2024(10), 210–217. <https://doi.org/10.1049/icp.2024.3307>
- Wafi, A. Z. Al, Rochim, F. P., & Fathimah, A. (2025). Deep Learning Approach for Pneumonia Prediction from X-Rays using A Pretrained Densenet Model. *Jurnal ELTIKOM*, 9(1), 98–106. <https://doi.org/10.31961/eltikom.v9i1.1457>
- Wibowo, A., Indarti, I., & Laraswati, D. (2024). Komparasi Algoritma Decision Tree, Random Forest dan SVM untuk Prognosis COVID-19. *IMTechno: Journal of Industrial Management and Technology*, 5(2), 10–15. <https://doi.org/10.31294/imtechno.v5i2.2868>
- Wijaya, P. H., Wulanningrum, R., & Halilintar, R. (2021). Perbaikan Citra Dengan Menggunakan Metode Gaussian Dan Median Filter. *Seminar Nasional Inovasi Teknologi*, 5(5), 100–105.
- Yasir, A., Satria, W., & Yuanda, P. (2023). Digital Image Processing Metode Median Filtering Dan Morfologi Opening Dalam Reduksi Noise Citra. *Warta Dharmawangsa*, 17(4), 1687–1701. <https://doi.org/10.46576/wdw.v17i4.3821>
- Zahra, M., & Rosfadilla, P. (2025). Muthia Zahra 1 , Puspa Rosfadilla 2 Fakultas Kedokteran Universitas Malikussaleh 1 , Departemen Ilmu Pulmonologi dan Respirasi RSUD Cut Meutia Aceh Utara 2. *Jurnal Riset Ilmu Kesehatan Umum*, 3(2), 147–153.
- Zhang, D., Ren, F., Li, Y., Na, L., & Ma, Y. (2021). Pneumonia detection from chest x-ray images based on convolutional neural network. *Electronics (Switzerland)*, 10(13). <https://doi.org/10.3390/electronics10131512>
- Zhang, H., & Ogasawara, K. (2023). Grad-CAM-Based Explainable Artificial Intelligence Related to Medical Text Processing. *Bioengineering*, 10(9). <https://doi.org/10.3390/bioengineering10091070>