

DAFTAR PUSTAKA

- Affifah, D. D., & Permanasari, Y. (2022). Teknik konvolusi pada deep learning untuk image processing. *Bandung Conference Series: Mathematics*, 2(2). <https://doi.org/10.29313/bcsm.v2i2.4527>
- Agarap, A. F. (2018). Deep learning using rectified linear units (ReLU). *arXiv*. <https://arxiv.org/abs/1803.08375>
- Al Husaini, M. A. S., Habaebi, M. H., Gunawan, T. S., Islam, M. R., Elsheikh, E. A. A., & Suliman, F. M. (2022). Thermal-based early breast cancer detection using inception V3, inception V4, and modified inception MV4. *Neural Computing and Applications*, 34(1). <https://doi.org/10.1007/s00521-021-06372-1>
- Ali, A. H., Yaseen, M. G., Aljanabi, M., & Abed, S. A. (2023). Transfer learning: A new promising technique. *Mesopotamian Journal of Big Data*, 29–30. <https://doi.org/10.58496/mjbd/2023/004>
- Cahya, F. N., Hardi, N., Riana, D., & Hadiani, S. (2021). Klasifikasi penyakit mata menggunakan convolutional neural network (CNN). *SISTEMASI: Jurnal Sistem Informasi*. <https://doi.org/10.32520/stmsi.v10i3.1248>
- Camara, J., Neto, A., Pires, I. M., Villasana, M. V., Zdravevski, E., & Cunha, A. (2022). Literature review on artificial intelligence methods for glaucoma screening, segmentation, and classification. *Journal of Imaging*, 8(2). <https://doi.org/10.3390/jimaging8020019>
- Chandradev, V., Suarjaya, I. M. D., & Bayupati, I. P. A. (2023). Analisis sentimen review hotel menggunakan metode deep learning BERT. *Jurnal Buana Informatika*, 14(2). <https://doi.org/10.24002/jbi.v14i02.7244>
- Doddi, G. V. (2023). *Eye diseases classification retinal images* [Dataset]. Retrieved October 20, 2024, from <https://www.kaggle.com/datasets/gunavenkatdoddi/eye-diseases-classification>
- Effendi, M., Fitriyah, F., & Effendi, U. (2017). Identifikasi jenis dan mutu teh menggunakan pengolahan citra digital dengan metode jaringan syaraf tiruan. *Jurnal Teknotan*, 11(2), 67. <https://doi.org/10.24198/jt.vol11n2.7>
- Fouad, M. M., Mustafa, E. M., & Elshafey, M. A. (2020). Detection and localization enhancement for satellite images with small forgeries using modified GAN-based

- CNN structure. *International Journal of Advances in Intelligent Informatics*, 6(3), 278–289. <https://doi.org/10.26555/ijain.v6i3.548>
- Gholamalinezhad, H., & Khosravi, H. (2020). Pooling methods in deep neural networks: A review. *arXiv*. <https://doi.org/10.48550/arXiv.2009.07485>
- Gianzurriell, V. B., Husnal, F., Wijaya, A., Fauzi, F., Paryudi, I., & Veritawati, I. (2023). Analisis gambar MRI otak untuk mendeteksi tumor otak menggunakan algoritma CNN. *Electric Journal of Education, Social Economics and Technology*. <https://doi.org/10.33122/ejeset.v6i2.926>
- Goh, K. W., Surono, S., Afiatin, M. Y. F., Mahmudah, K. R., Irsalinda, N., Chaimanee, M., & Onn, C. W. (2024). Comparison of activation functions in convolutional neural network for poisson noisy image classification. *Emerging Science Journal*, 8(2), 592–602. <https://doi.org/10.28991/ESJ-2024-08-02-014>
- Hidayah, A. K., & Putra, R. E. (2024). Penerapan metode long short-term memory untuk memprediksi harga beras di Indonesia. *Journal of Informatics and Computer Science*, 6. <https://doi.org/10.26740/jinacs.v6n03.p720-729>
- Hosna, A., Merry, E., Gyalmo, J., Alom, Z., Aung, Z., & Azim, M. A. (2022). Transfer learning: A friendly introduction. *Journal of Big Data*, 9(1). <https://doi.org/10.1186/s40537-022-00652-w>
- Husen, D. (2024). Evaluasi teknik augmentasi data untuk klasifikasi tumor otak menggunakan CNN pada citra MRI. *TEKNIMEDIA: Teknologi Informasi dan Multimedia*. <https://doi.org/10.46764/teknimedia.v5i2.220>
- Hutahaean, H. D., Waluyo, B. D., & Rais, M. A. (2019). Teknologi identifikasi objek berbasis drone menggunakan algoritma SIFT citra digital. *Jurnal Teknik Informatika UNIKA Santo Thomas*, 4(2), 193–198. <https://doi.org/10.17605/jti.v4i2.590>
- Ibrahim, N., Rizal, S., Saidah, S., Syahrian, H., Fardiansyah, S. A., Al Afghani, A. Z., & Hayat, M. H. (2022). Klasifikasi citra klon teh seri GMB menggunakan convolutional neural network dengan arsitektur ResNet, VGGNet, dan AlexNet. *Jurnal Sains Teh dan Kina*, 1(2), 27–39. <https://doi.org/10.22302/pptk.jur.jstk.v1i2.168>
- Ioffe, S., & Szegedy, C. (2015). Batch normalization: Accelerating deep network training by reducing internal covariate shift. *arXiv*. <https://arxiv.org/abs/1502.03167>

- Islam, M. A., Kowal, M., Jia, S., Derpanis, K. G., & Bruce, N. D. B. (2021). Position, padding, and predictions: A deeper look at position information in CNNs. *arXiv*. <https://arxiv.org/abs/2101.12322>
- Jabber, A. A., Hadi, A., Wadi, S., & Ali, G. (2025). Cataract detection and classification using deep learning techniques. *International Journal of Computing and Digital Systems*, 17(1), 1–10. <https://doi.org/10.12785/ijcds/1571037888>
- Jarrett, K., Kavukcuoglu, K., Ranzato, A., & LeCun, Y. (2009). What is the best multi-stage architecture for object recognition? *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*. <https://doi.org/10.1109/ICCV.2009.5459469>
- Jepkoech, J., Mugo, D. M., Kenduiywo, B. K., & Too, E. C. (n.d.). The effect of adaptive learning rate on the accuracy of neural networks. *International Journal of Advanced Computer Science and Applications*, 12(8). <https://doi.org/10.14569/IJACSA.2021.0120885>
- Julianto, A., Sunyoto, A., Ferry, D., & Wibowo, W. (2022). Optimasi hyperparameter convolutional neural network untuk klasifikasi penyakit tanaman padi. *TEKNIMEDIA: Teknologi Informasi dan Multimedia*. <https://doi.org/10.46764/teknimedia.v3i2.77>
- Jumadi, J., Yupianti, & Sartika, D. (2021). Pengolahan citra digital untuk identifikasi objek menggunakan metode hierarchical agglomerative clustering. *Jurnal Sains dan Teknologi Undiksha*, 10(2). <https://doi.org/10.23887/jstundiksha.v10i2.33636>
- Kingma, D. P., & Ba, J. L. (2015). Adam: A method for stochastic optimization. *Proceedings of the International Conference on Learning Representations (ICLR)*.
- Krizhevsky, A., Sutskever, I., & Hinton, G. E. (2012). ImageNet classification with deep convolutional neural networks. *Advances in Neural Information Processing Systems*, 25. <https://doi.org/10.1145/3065386>
- Kumar, T., Mileo, A., Brennan, R., & Bendeche, M. (2023). Image data augmentation approaches: A comprehensive survey and future directions. *arXiv*. <https://arxiv.org/abs/2301.02830>
- Lin, M., Chen, Q., & Yan, S. (2013). Network in network. *arXiv*. <https://arxiv.org/abs/1312.4400>
- Liu, Y.-C., Wilkins, M., Kim, T., Malyugin, B., & Mehta, J. S. (2017). Cataracts. *The Lancet*, 390(10094), 600–612. [https://doi.org/10.1016/S0140-6736\(17\)30544-5](https://doi.org/10.1016/S0140-6736(17)30544-5)

- Malla, P. P., Sahu, S., & Alutaibi, A. I. (2023). Classification of tumor in brain MR images using deep convolutional neural network and global average pooling. *Processes*, *11*(3). <https://doi.org/10.3390/pr11030679>
- Mesran, Yahya, S. R., Nugroho, F., & Windarto, A. P. (2024). Investigating the impact of ReLU and sigmoid activation functions on animal classification using CNN models. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, *8*(1), 111–118. <https://doi.org/10.29207/resti.v8i1.5367>
- Mola, S. A. S., Saragih, A. E. Y., & Mauko, A. Y. (2024). Implementasi sistem pakar mata katarak menggunakan metode certainty factor. *JIKO (Jurnal Informatika dan Komputer)*, *8*(2), 301. <https://doi.org/10.26798/jiko.v8i2.1129>
- Noreen, N., Palaniappan, S., Qayyum, A., Ahmad, I., Imran, M., & Shoaib, M. (2020). A deep learning model based on concatenation approach for the diagnosis of brain tumor. *IEEE Access*, *8*, 55135–55144. <https://doi.org/10.1109/ACCESS.2020.2978629>
- Pan, Y., Liu, J., Cai, Y., Yang, X., Zhang, Z., Long, H., Zhao, K., Yu, X., Zeng, C., Duan, J., Xiao, P., Li, J., Cai, F., Yang, X., & Tan, Z. (2023). Fundus image classification using Inception V3 and ResNet-50 for the early diagnostics of fundus diseases. *Frontiers in Physiology*, *14*. <https://doi.org/10.3389/fphys.2023.1126780>
- Pardede, J., Sitohang, B., Akbar, S., & Khodra, M. L. (2021). Implementation of transfer learning using VGG16 on fruit ripeness detection. *International Journal of Intelligent Systems and Applications*, *13*(2), 52–61. <https://doi.org/10.5815/ijisa.2021.02.04>
- Piyasena, M. M. P. N., Murthy, G. V. S., Yip, J. L. Y., Gilbert, C., Zuurmond, M., Peto, T., Gordon, I., Hewage, S., & Kamalakannan, S. (2019). Systematic review on barriers and enablers for access to diabetic retinopathy screening services in different income settings. *PLOS ONE*, *14*(4). <https://doi.org/10.1371/journal.pone.0198979>
- Prabowo, D. A., Abdullah, D., & Manik, A. (2018). Deteksi dan perhitungan objek berdasarkan warna menggunakan color object tracking. *Jurnal Pseudocode (Issue 2)*. <https://doi.org/10.33369/pseudocode.5.2.85-91>
- Prakash, P., & Kareem, S. (2023). CataractNet. *International Journal of Advanced Research in Science, Communication and Technology*, *3*(15). <https://doi.org/10.48175/568>

- Purba, W., Aisyah, S., & Tamba, S. P. (2017). Perancangan sistem pakar diagnosa penyakit mata katarak menggunakan konsep metode runut mundur. *Jurnal Sistem Informasi dan Ilmu Komputer Prima*, 1(1). <https://jurnal.unprimdn.ac.id/index.php/jusikom/article/view/22>
- Putri, M. S. D., Kurniawan, M. I., Datu, H. H. R., Kusumawardhani, S. I., & Anoez, A. (2019). Gambaran visus pasien katarak post operatif di RS Bhayangkara tahun September 2019–Januari 2022. *Fakumi Medical Journal: Jurnal Mahasiswa Kedokteran*, 4(1), 29-37. <https://doi.org/10.33096/fmj.v4i1.319>
- Rajalakshmi, R., & Aravindan, C. (2018). A naive Bayes approach for URL classification with supervised feature selection and rejection framework. *Computational Intelligence*, 34(1). <https://doi.org/10.1111/coin.12158>
- Roy, P. K. (2020). Multilayer convolutional neural network to filter low-quality content from Quora. *Neural Processing Letters*, 52, 805–821. <https://doi.org/10.1007/s11063-020-10284-x>
- Safrizal, M., & Harjoko, D. A. (2014). Perbandingan pewarnaan citra grayscale menggunakan metode K-means clustering dan agglomerative hierarchical clustering. *Journal of Mathematics and Natural Science*, 23(3). <https://jurnal.ugm.ac.id/bimipa/article/view/13855/9938>
- Shah, K., & Patel, K. S. (2024). Study of multiclass classification techniques. *International Advanced Research Journal in Science, Engineering and Technology*, 11(2). <https://doi.org/10.17148/iarjset.2024.11220>
- Simanjuntak, R. B. J., Fu'Adah, Y., Magdalena, R., Saidah, S., Wiratama, A. B., & Ubaidah, I. D. S. (2022). Cataract classification based on fundus images using convolutional neural network. *International Journal on Informatics Visualization*, 6(1), 33–38. <https://doi.org/10.30630/joiv.6.1.856>
- Son, K. Y., Ko, J., Kim, E., Lee, S. Y., Kim, M. J., Han, J., Shin, E., Chung, T. Y., & Lim, D. H. (2022). Deep learning-based cataract detection and grading from slit-lamp and retro-illumination photographs: Model development and validation study. *Ophthalmology Science*, 2(2). <https://doi.org/10.1016/j.xops.2022.100147>
- Song, E., Sun, H., Xu, Y., Ma, Y., Zhu, H., & Pan, C. W. (2014). Age-related cataract, cataract surgery, and subsequent mortality: A systematic review and meta-analysis. *PLOS ONE*, 9(11). <https://doi.org/10.1371/journal.pone.0112054>

- Szegedy, C., Vanhoucke, V., Ioffe, S., & Shlens, J. (2016). Rethinking the inception architecture for computer vision. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. <https://doi.org/10.1109/CVPR.2016.308>
- Tahir, H. N., Ullah, N., Tahir, M., Domnic, I. S., Prabhakar, R., Meerasa, S. S., AbdElneam, A. I., Tahir, S., & Ali, Y. (2025). Artificial intelligence versus manual screening for the detection of diabetic retinopathy: A comparative systematic review and meta-analysis. *Frontiers in Medicine*, *12*. <https://doi.org/10.3389/fmed.2025.1519768>
- Terven, J., Cordova-Esparza, D. M., Ramirez-Pedraza, A., Chavez-Urbiola, E. A., & Romero-Gonzalez, J. A. (2023). Loss functions and metrics in deep learning. *Artificial Intelligence Review*. <https://doi.org/10.1007/s10462-025-11198-7>
- Thomkaew, J., & Intakosum, S. (2022). Improvement classification approach in tomato leaf disease using modified visual geometry group (VGG)-InceptionV3. *International Journal of Advanced Computer Science and Applications*, *13*(12). <https://doi.org/10.14569/IJACSA.2022.0131244>
- Tinaliah, & Elizabeth, T. (2021). Penerapan convolutional neural network untuk klasifikasi citra ekspresi wajah manusia pada MMA facial expression dataset. *Jurnal MDP*, *8*(4). <https://doi.org/10.35957/jatisi.v8i4.1437>
- Ungkawa, U., & Hakim, G. A. (2023). Klasifikasi warna pada kematangan buah kopi kuning menggunakan metode CNN Inception V3. *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, dan Teknik Elektronika*, *11*(3), 731. <https://doi.org/10.26760/elkomika.v11i3.731>
- Wang, J., & Perez, L. (2017). The effectiveness of data augmentation in image classification using deep learning. *arXiv*. <https://arxiv.org/abs/1712.04621>
- World Health Organization. (2023, August 10). *Blindness and vision impairment*. <https://www.who.int/news-room/fact-sheets/detail/blindness-and-visual-impairment>
- Wicitra, R. K., Zamzam, M., & Cahyani, F. (2023). Studi deskriptif gambaran mengenai kasus katarak dan refraksi di Provinsi Jawa Timur tahun 2022. *Jurnal Kesehatan*, *2*(1). <https://doi.org/10.56399/jgl.v2i1.81>
- Wijaya, A. E., Swastika, W., & Kelana, O. H. (2021). Implementasi transfer learning pada convolutional neural network untuk diagnosis COVID-19 dan pneumonia pada citra X-ray. *SAINSBERTEK: Jurnal Ilmiah Sains dan Teknologi*, *2*. <https://doi.org/10.33479/sb.v2i1.125>

- Wohlberg, B., & Rodriguez, P. (2017). Convolutional sparse coding: Boundary handling revisited. *arXiv*. <https://arxiv.org/abs/1707.06718>
- Wulandari, I., Yasin, H., & Widiharih, T. (2020). Klasifikasi citra digital bumbu dan rempah dengan algoritma convolutional neural network (CNN). *Jurnal Gaussian*. <https://doi.org/10.14710/j.gauss.9.3.273-282>
- Xu, X., Zhao, L., Li, J., & Li, L. (2024). Incorporating medical domain knowledge into data-driven method: A vessel attention-guided multi-granularity network for automatic cataract classification. *Expert Systems with Applications*, 241. <https://doi.org/10.1016/j.eswa.2023.122671>
- Yamashita, R., Nishio, M., Do, R. K. G., & Togashi, K. (2018). Convolutional neural networks: An overview and application in radiology. *Insights into Imaging*, 9(4), 611–629. <https://doi.org/10.1007/s13244-018-0639-9>
- Yoshizaki, M., Ramke, J., Zhang, J. H., Aghaji, A., Furtado, J. M., Burn, H., Gichuhi, S., Dean, W. H., Congdon, N., Burton, M. J., & Buchan, J. (2021). How can we improve the quality of cataract services for all? A global scoping review. *Clinical and Experimental Ophthalmology*, 49(7), 672–685. <https://doi.org/10.1111/ceo.13976>
- Zadeh, A. A., Leevy, J. L., & Khoshgoftaar, T. M. (2024). A survey on the choice between binary classification and one-class classification. *Conference: 27th ISSAT International Conference on Reliability & Quality in Design, RQD 2022*. <https://www.researchgate.net/publication/377356352>
- Zulfa, M. M., & Aditya, C. S. K. (2024). Cataract classification using convolutional neural network (CNN) Inception ResNetV2. *Jurnal Teknik Informatika (JUTIF)*, 5(4), 1299–1307. <https://doi.org/10.52436/1.jutif.2024.5.5.2340>