

DAFTAR PUSTAKA

- Akther, M., Akter, S. H., Sarker, S., Aleri, J. W., Annandale, H., Abraham, S., & Uddin, J. M. (2023). Global Burden of Lumpy Skin Disease, Outbreaks, and Future Challenges. *Viruses*, 15(9). <https://doi.org/10.3390/v15091861>
- Al Rahhal, M. M., Bazi, Y., Jomaa, R. M., Alshibli, A., Alajlan, N., Mekhalfi, M. L., & Melgani, F. (2022). COVID-19 Detection in CT/X-ray Imagery Using Vision Transformers. *Journal of Personalized Medicine*, 12(2). <https://doi.org/10.3390/jpm12020310>
- Aria, M. S. A., Slamet, C., & Firdaus, M. D. (2025). Klasifikasi Fake dan Real Menggunakan Vision Transformer dan EfficientNet-B0 pada Gambar Asli dan Generatif AI. *Smatika Jurnal*, 15(01), 179–192. <https://doi.org/10.32664/smatika.v15i01.1531>
- Ba, J. L., Kiros, J. R., & Hinton, G. E. (2016). *Layer Normalization*. <http://arxiv.org/abs/1607.06450>
- Berckmans, D. (2017). General introduction to precision livestock farming. *Animal Frontiers*, 7(1), 6–11. <https://doi.org/10.2527/af.2017.0102>
- Callaghan, D., Burger, J., & Mishra, A. K. (2017). A machine learning approach to radar sea clutter suppression. *2017 IEEE Radar Conference, RadarConf 2017*, 1222–1227. <https://doi.org/10.1109/RADAR.2017.7944391>
- Diseases, E. (2020). Issue Information. *Transboundary and Emerging Diseases*, 67(4), 4–9. <https://doi.org/10.1111/tbed.13241>
- Dosovitskiy, A., Beyer, L., Kolesnikov, A., Weissenborn, D., Zhai, X., Unterthiner, T., Dehghani, M., Minderer, M., Heigold, G., Gelly, S., Uszkoreit, J., & Houlsby, N. (2021). an Image Is Worth 16X16 Words: Transformers for Image Recognition At Scale. *ICLR 2021 - 9th International Conference on Learning Representations*.
- Febriyanto, T., & Syofian, S. (2024). *Technology Information and Data Analytic Implementasi Deep Learning Menggunakan Vision Transformer Untuk Klasifikasi Penyakit Daun Padi*. 1(2), 34–39.
- Gonzalez, T. F. (2007). Handbook of approximation algorithms and metaheuristics. *Handbook of Approximation Algorithms and Metaheuristics*, 1–1432. <https://doi.org/10.1201/9781420010749>
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). Deep Learning. MIT review. *Healthcare Informatics Research*, 22(4), 351.
- Haider, A., Abbas, Z., Taqveem, A., Ali, A., Khurshid, M., Naggar, R. F. E., Rohaim, M. A., & Munir, M. (2024). Lumpy Skin Disease: Insights into Molecular Pathogenesis and Control Strategies. *Veterinary Sciences*, 11(11). <https://doi.org/10.3390/vetsci11110561>
- Hakim, L., Sobri, A., Sunardi, L., & Nurdiansyah, D. (2024). Prediksi Penyakit Jantung Berbasis Mesin Learning Dengan Menggunakan Metode K-NN. *Jurnal Digital Teknologi Informasi*, 07(02), 14–20.
- Halim, J. D. (2024). *Klasifikasi Sel Darah Putih Menggunakan Vision Transformer (ViT)*. 6(November), 291–307.
- He, K., Chen, X., Xie, S., Li, Y., Dollar, P., & Girshick, R. (2022). Masked Autoencoders Are Scalable Vision Learners. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 2022-June*, 15979–15988. <https://doi.org/10.1109/CVPR52688.2022.01553>
- Hendrycks, D., & Gimpel, K. (2023). *Gaussian Error Linear Units (GELUs)*. 1–10. <http://arxiv.org/abs/1606.08415>
- Himel, G. M. S., Islam, M. M., Al-Aff, K. A., Karim, S. I., & Sikder, M. K. U. (2024). Skin

- Cancer Segmentation and Classification Using Vision Transformer for Automatic Analysis in Dermatoscopy-Based Noninvasive Digital System. *International Journal of Biomedical Imaging*, 2024. <https://doi.org/10.1155/2024/3022192>
- Ioffe, S., & Szegedy, C. (2015). Batch normalization: Accelerating deep network training by reducing internal covariate shift. *32nd International Conference on Machine Learning, ICML 2015*, 1, 448–456.
- Johnson, J. M., & Khoshgoftaar, T. M. (2019). Survey on deep learning with class imbalance. *Journal of Big Data*, 6(1). <https://doi.org/10.1186/s40537-019-0192-5>
- Khan, S., Naseer, M., Hayat, M., Zamir, S. W., Khan, F. S., & Shah, M. (2022). Transformers in Vision: A Survey. *ACM Computing Surveys*, 54(10), 1–30. <https://doi.org/10.1145/3505244>
- Kiplagat, S. K., Kitale, P. M., Onono, J. O., Beard, P. M., & Lyons, N. A. (2020). *Risk Factors for Outbreaks of Lumpy Skin Disease and the Economic Impact in Cattle Farms of Nakuru County, Kenya*. 7(May). <https://doi.org/10.3389/fvets.2020.00259>
- Li, G., Huang, Y., Chen, Z., Chesser, G. D., Purswell, J. L., Linhoss, J., & Zhao, Y. (2021). Practices and applications of convolutional neural network-based computer vision systems in animal farming: A review. *Sensors*, 21(4), 1–42. <https://doi.org/10.3390/s21041492>
- Liang, Z., Yao, K., Wang, S., Yin, J., Ma, X., Yin, X., Wang, X., & Sun, Y. (2022). Understanding the research advances on lumpy skin disease: A comprehensive literature review of experimental evidence. *Frontiers in Microbiology*, 13(November). <https://doi.org/10.3389/fmicb.2022.1065894>
- Liu, L., Jiang, H., He, P., Chen, W., Liu, X., Gao, J., & Han, J. (2020). on the Variance of the Adaptive Learning Rate and Beyond. *8th International Conference on Learning Representations, ICLR 2020*, 1–14.
- Loshchilov, I., & Hutter, F. (2019). Decoupled weight decay regularization. *7th International Conference on Learning Representations, ICLR 2019*.
- Mohiuddin, K., Welke, P., Alam, M. A., Martin, M., Alam, M. M., Lehmann, J., & Vahdati, S. (2023). Retention Is All You Need. *International Conference on Information and Knowledge Management, Proceedings, Nips*, 4752–4758. <https://doi.org/10.1145/3583780.3615497>
- Mujahid, M., Khurshaid, T., Safran, M., Alfarhood, S., & Ashraf, I. (2024). Prediction of lumpy skin disease virus using customized CBAM-DenseNet-attention model. *BMC Infectious Diseases*, 24(1), 1181. <https://doi.org/10.1186/s12879-024-10032-9>
- Pangestu, A., Purnama, B., & Risnandar, R. (2024). Vision Transformer untuk Klasifikasi Kematangan Pisang. *Jurnal Teknologi Informasi Dan Ilmu Komputer*, 11(1), 75–84. <https://doi.org/10.25126/jtiik.20241117389>
- Paszke, A., Gross, S., Massa, F., Lerer, A., Bradbury, J., Chanan, G., Killeen, T., Lin, Z., Gimelshein, N., Antiga, L., Desmaison, A., Köpf, A., Yang, E., DeVito, Z., Raison, M., Tejani, A., Chilamkurthy, S., Steiner, B., Fang, L., ... Chintala, S. (2019). PyTorch: An imperative style, high-performance deep learning library. *Advances in Neural Information Processing Systems*, 32(NeurIPS).
- Pereira, G. A., & Hussain, M. (2024). *A Review of Transformer-Based Models for Computer Vision Tasks: Capturing Global Context and Spatial Relationships*. <http://arxiv.org/abs/2408.15178>
- Perez, L., & Wang, J. (2017). *The Effectiveness of Data Augmentation in Image Classification using Deep Learning*. <http://arxiv.org/abs/1712.04621>
- Rangel, G., Cuevas-Tello, J. C., Nunez-Varela, J., Puente, C., & Silva-Trujillo, A. G. (2024). A Survey on Convolutional Neural Networks and Their Performance Limitations in

- Image Recognition Tasks. *Journal of Sensors*, 2024. <https://doi.org/10.1155/2024/2797320>
- Sacadibrata, S., Rahman, T., & Anggai, S. (2025). Perbandingan Convolutional Neural Network dan Vision Transformer Untuk Klasifikasi Penyakit Daun Pada Tomat. *Prosiding Seminar Kecerdasan Artifisial, Sains Data, Dan Pendidikan Masa Depan*, 3(1), 27–40. <https://openjournal.unpam.ac.id/index.php/PROKASDADIK/article/view/47669>
- Sanjaya, I., Lelita, T., Yustiana, I., Informatika, S. T., Teknik, F., Desain, K. D., & Putra, U. N. (2025). *Application Of Vision Transformer For Identifying Indonesian Herbal Plants Based On Visual Images Penerapan Vision Transformer Untuk Identifikasi Tanaman Herbal Indonesia Berdasarkan Citra Visual Imam Sanjaya 1) ; Tiara Lelita 2) ; Indra Yustiana 3)*. 4(2), 385–400. <https://doi.org/10.37676/jmcs.v4i2>
- Saqib, S. M., Iqbal, M., Othman, M. T. Ben, Shahazad, T., Ghadi, Y. Y., Al-Amro, S., & Mazhar, T. (2024). Lumpy skin disease diagnosis in cattle: A deep learning approach optimized with RMSProp and MobileNetV2. *PLoS ONE*, 19(8 August), 1–16. <https://doi.org/10.1371/journal.pone.0302862>
- Sendow, I., Assadah, N. S., Ratnawati, A., Dharmayanti, N. I., & Saepulloh, M. (2021). Lumpy Skin Disease: Ancaman Penyakit Emerging Bagi Kesehatan Ternak Sapi Di Indonesia. *Indonesian Bulletin of Animal and Veterinary Sciences*, 31(2), 85. <https://doi.org/10.14334/wartazoa.v31i2.2739>
- Senthilkumar, C., C, S., Vadivu, G., & Neethirajan, S. (2024). Early Detection of Lumpy Skin Disease in Cattle Using Deep Learning—A Comparative Analysis of Pretrained Models. *Veterinary Sciences*, 11(10), 1–23. <https://doi.org/10.3390/vetsci11100510>
- Sentoso, T., Ardiansyah, F., Tamuntuan, V., Sastra Wangsa, S., Kusriani, & Kusnawi. (2024). Identifikasi Lumpy Skin Disease pada Ternak Sapi dengan Klasifikasi Citra menggunakan Metode Convolutional Neural Network. *Sistemasi: Jurnal Sistem Informasi*, 13(3), 864–873. <https://sistemasi.ftik.unisi.ac.id/index.php/stmsi/article/view/2569/691>
- Shorten, C., & Khoshgoftaar, T. M. (2019). A survey on Image Data Augmentation for Deep Learning. *Journal of Big Data*, 6(1). <https://doi.org/10.1186/s40537-019-0197-0>
- Taylor, L., & Nitschke, G. (2018). Improving Deep Learning with Generic Data Augmentation. *Proceedings of the 2018 IEEE Symposium Series on Computational Intelligence, SSCI 2018*, 1542–1547. <https://doi.org/10.1109/SSCI.2018.8628742>
- Uthama, R., Hendrik, B., Informatika, M. T., Komputer, F. I., Indonesia, U. P., & Riau, U. M. (2024). Jurnal Computer Science and Information Technology (CoSciTech) Vision Transformer untuk Identifikasi 15 Variasi Citra Ikan Koi Vision Transformer for 15 Variatio. *Jurnal Computer Science and Information Technology (CoSciTech)*, 5(1), 159–168.
- Vision, B., For, T., Classification, V., Cuisine, P., Robustness, W., & Data, T. (2025). *BENCHMARKING VISION TRANSFORMER KLASIFIKASI VISUAL MASAKAN PADANG DENGAN ROBUSTNESS MELALUI AUGMENTASI DATA BENCHMARKING VISION TRANSFORMER FOR VISUAL CLASSIFICATION OF*. November, 152–164.
- Yang, G., Luo, S., & Greer, P. (2023). A Novel Vision Transformer Model for Skin Cancer Classification. *Neural Processing Letters*, 55(7), 9335–9351. <https://doi.org/10.1007/s11063-023-11204-5>
- Ying, X. (2019). An Overview of Overfitting and its Solutions. *Journal of Physics: Conference Series*, 1168(2). <https://doi.org/10.1088/1742-6596/1168/2/022022>
- Yu, R. (2020). *A Tutorial on VAEs: From Bayes' Rule to Lossless Compression*. 1–21.

<http://arxiv.org/abs/2006.10273>

Zhang, Y., Wang, J., Gorriz, J. M., & Wang, S. (2023). Deep Learning and Vision Transformer for Medical Image Analysis. *Journal of Imaging*, 9(7), 9–12. <https://doi.org/10.3390/jimaging9070147>