

REFERENCES

- [1] K. Patil, Y. Suryawanshi, A. Patrawala, and P. Chumchu, “A comprehensive lemongrass (*cymbopogon citratus*) leaf dataset for agricultural research and disease prevention,” *Data in Brief*, vol. 53, p. 110104, 2024, doi: 10.1016/j.dib.2024.110104. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2352340924000775>
- [2] G. Costa, S. González-Manzano, A. González-Paramás, I. V. Figueiredo, C. Santos-Buelga, and M. T. Batista, “Flavan hetero-dimers in the *cymbopogon citratus* infusion tannin fraction and their contribution to the antioxidant activity,” *Food Funct.*, vol. 6, no. 3, pp. 932–937, 2015, doi: 10.1039/C5FO00042D.
- [3] E. Majewska, M. Kozłowska, E. Gruczyńska-Sekowska, D. Kowalska, and K. Tarnowska, “Lemongrass (*cymbopogon citratus*) essential oil: Extraction, composition, bioactivity and uses for food preservation – a review,” *Polish Journal of Food and Nutrition Sciences*, vol. 69, no. 4, pp. 327–341, 2019, doi: 10.31883/pjfn/113152.
- [4] D. Panda, D. Panda, B. Padhan, and M. Biswas, “Growth and physiological response of lemongrass (*cymbopogon citratus* (d.c.) stapf.) under different levels of fly ash-amended soil,” *International Journal of Phytoremediation*, vol. 20, no. 6, pp. 538–544, 2018, doi: 10.1080/15226514.2017.1393394.
- [5] F. Fahdi and H. Sari, “Edukasi manfaat ekstrak daun sereh (*cymbopogon citratus*) sebagai obat kumur anti bakteri,” *Jurnal Pengabdian Masyarakat Putri Hijau*, vol. 4, 2023, doi: 10.30743/best.v5i1.4970.
- [6] S. Nyamath and B. Karthikeyan, “In vitro antifungal activity of lemongrass (*cymbopogon citratus*) leaf extracts,” *Journal of Pharmacognosy and Phytochemistry*, vol. 7, no. 3, pp. 1148–1151, 2018.
- [7] R. H. Mahmoud, “Toxicity and biochemical effect of some plant extracts against the two-spotted spider mite *tetranychus urticae* (koch). (acari: Tetranychidae),” *Plant Archives*, vol. 20, no. 2, pp. 5450–5454, 2020.

- [8] O. S. Onoriode and E. Ifeanyichukwu, "A comprehensive review on lemon-grass (*cymbopogon citratus*) oil extraction and its applications," *EPRA International Journal of Research & Development (IJRD)*, vol. 8, no. 4, April 2023, doi: 10.36713/epra12959.
- [9] O. E. Obaleye, O. A. Adeyemo, E. A. Osibote, and O. M. Ibrahim, "Chemical analysis of essential oil and genetic diversity using issr and ssr markers in cultivated lemongrass (*cymbopogon citratus*) accessions," *African Scientist*, vol. 24, no. 1, pp. 31–39, March 2023. [Online]. Available: <https://africanscientistjournal.org>
- [10] F. Thasrin and A. V., "Nutritional and nutraceutical potentials of lemongrass (*Cymbopogon citratus*)," *International Journal of Current Science Research and Review*, vol. 6, no. 5, pp. 2881–2886, May 2023, doi: 10.47191/ijcsrr/V6-i5-24. [Online]. Available: <https://www.ijcsrr.org/>
- [11] K. M. Hosny, W. M. El-Hady, F. M. Samy, E. Vrochidou, and G. A. Papakostas, "Multi-class classification of plant leaf diseases using feature fusion of deep convolutional neural network and local binary pattern," *IEEE Access*, vol. 11, pp. 62 307–62 317, 2023, doi: 10.1109/ACCESS.2023.3286730.
- [12] D. S. Dewantara, R. Hidayat, H. Susanto, and A. M. Arymurthy, "Cnn with multi stage image data augmentation methods for indonesia rare and protected orchids classification," in *2020 International Conference on Computer Science and Its Application in Agriculture (ICOSICA)*, 2020, pp. 1–5, doi: 10.1109/ICOSICA49951.2020.9243174.
- [13] M. T. R., "Enhancing diagnostic accuracy in breast ultrasound imaging through deep learning and image augmentation techniques," in *2024 International Conference on Emerging Research in Computational Science (ICERCS)*, 2024, pp. 1–6, doi: 10.1109/ICERCS63125.2024.10895367.
- [14] J. Lijo, "Analysis of effectiveness of augmentation in plant disease prediction using deep learning," in *2021 5th International Conference on Computing Methodologies and Communication (ICCMC)*, 2021, pp. 1654–1659, doi: 10.1109/ICCMC51019.2021.9418266.
- [15] P. Tm, A. Pranathi, K. SaiAshritha, N. B. Chittaragi, and S. G. Koolagudi, "Tomato leaf disease detection using convolutional neural networks," in *2018 Eleventh International Conference on Contemporary Computing (IC3)*, 2018, pp. 1–5, doi: 10.1109/IC3.2018.8530532.

- [16] N. Shelar, S. Shinde, S. Sawant, S. Dhumal, and K. Fakir, "Plant disease detection using cnn," in *ITM Web of Conferences, Proceedings of ICACC-2022*, vol. 44, 2022, p. 03049, doi: 10.1051/itmconf/20224403049.
- [17] G. Chugh, A. Sharma, P. Choudhary, and R. Khanna, "Potato leaf disease detection using inception v3," *International Research Journal of Engineering and Technology (IRJET)*, vol. 7, no. 11, pp. 1363–1366, 2020. [Online]. Available: <https://www.irjet.net/archives/V7/i11/IRJET-V7I11241.pdf>
- [18] M. H. Saleem, J. Potgieter, and K. M. Arif, "Plant disease classification: A comparative evaluation of convolutional neural networks and deep learning optimizers," *Plants*, vol. 9, no. 10, 2020, doi: 10.3390/plants9101319. [Online]. Available: <https://www.mdpi.com/2223-7747/9/10/1319>
- [19] A. Sagar and D. Jacob, "On using transfer learning for plant disease detection," *bioRxiv*, 2021, doi: 10.1101/2020.05.22.110957. [Online]. Available: <https://www.biorxiv.org/content/early/2021/05/25/2020.05.22.110957>
- [20] S. M. Hassan, A. K. Maji, M. Jasinski, Z. Leonowicz, and E. Jasinska, "Identification of plant-leaf diseases using cnn and transfer-learning approach," *Electronics*, vol. 10, no. 12, 2021, doi: 10.3390/electronics10121388. [Online]. Available: <https://www.mdpi.com/2079-9292/10/12/1388>
- [21] M. Gogoi, V. Kumar, S. A. Begum, N. Sharma, and S. Kant, "Classification and detection of rice diseases using a 3-stage cnn architecture with transfer learning approach," *Agriculture*, vol. 13, no. 8, 2023, doi: 10.3390/agriculture13081505. [Online]. Available: <https://www.mdpi.com/2077-0472/13/8/1505>
- [22] M. A. Hajam, T. Arif, A. M. U. D. Khanday, and M. Neshat, "An effective ensemble convolutional learning model with fine-tuning for medicinal plant leaf identification," *Information*, vol. 14, no. 11, 2023, doi: 10.3390/info14110618. [Online]. Available: <https://www.mdpi.com/2078-2489/14/11/618>
- [23] S. Serttaş and E. Deniz, "Disease detection in bean leaves using deep learning," *Communications Faculty of Sciences University of Ankara Series A2–A3 Physical Sciences and Engineering*, vol. 65, no. 2, pp. 115–129, 2023, doi: 10.33769/aupse.1247233.

- [24] Y. Gulzar, “Fruit image classification model based on mobilenetv2 with deep transfer learning technique,” *Sustainability*, vol. 15, no. 3, p. 1906, 2023, doi: 10.3390/su15031906.
- [25] M. Shamiul Islam, U. Habiba, M. Abu Baten, N. Amin, I. Salehin, and T. T. Jidney, “Hybrid convolution neural network with transfer learning approach for agro-crop leaf disease identification,” in *Advances in Intelligent Systems, Computer Science and Digital Economics IV*, 2023, pp. 209–217, doi: 10.1007/978-3-031-24475-9-18.
- [26] R. Faurina, S. Rahma, A. Vatesia, and A. Susanto, “Comparison of convolutional neural networks transfer learning models for disease classification of food crops,” *International Journal on Informatics Visualization*, vol. 8, no. 4, pp. 2020–2032, 2024. [Online]. Available: <http://www.joiv.org/index.php/joiv>
- [27] A. Azis, A. Fadlil, and T. Sutikno, “Optimization of convolutional neural network (cnn) using transfer learning for disease identification in rice leaf image,” *Jurnal E-Komtek*, vol. 8, no. 2, pp. 504–515, 2024, doi: 10.37339/e-komtek.v8i2.2132.
- [28] R. Saluja, M. Shukla, G. Kaur, and P. Rana, “Novel cnn integration with pre-trained model for enhanced plant disease detection,” *E3S Web of Conferences*, vol. 556, p. 01005, 08 2024, doi: 10.1051/e3sconf/202455601005.
- [29] C. Szegedy, V. Vanhoucke, S. Ioffe, J. Shlens, and Z. Wojna, “Rethinking the inception architecture for computer vision,” in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016, pp. 2818–2826, doi: 10.1109/CVPR.2016.308.
- [30] K. He, X. Zhang, S. Ren, and J. Sun, “Identity mappings in deep residual networks,” in *European Conference on Computer Vision (ECCV)*, ser. Lecture Notes in Computer Science, vol. 9908, 2016, pp. 630–645, doi: 10.1007/978-3-319-46493-0-38.
- [31] G. Huang, Z. Liu, G. Pleiss, L. Van Der Maaten, and K. Q. Weinberger, “Convolutional networks with dense connectivity,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 41, no. 8, pp. 1929–1940, 2019, doi: 10.1109/TPAMI.2019.2918284.
- [32] M. Sandler, M. Zhu, A. Zhmoginov, and L.-C. Chen, “Mobilenetv2: Inverted residuals and linear bottlenecks,” in *Proceedings of the IEEE Conference on*

- Computer Vision and Pattern Recognition (CVPR)*, 2018, pp. 4510–4520, doi: 10.1109/CVPR.2018.00474.
- [33] F. Chollet, “Xception: Deep learning with depthwise separable convolutions,” in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017, pp. 1800–1807, doi: 10.1109/CVPR.2017.195.
 - [34] S. Indolia, A. Goswami, S. Mishra, and P. Asopa, “Conceptual understanding of convolutional neural network - a deep learning approach,” *Procedia Computer Science*, vol. 132, pp. 679–688, 2018, doi: 10.1016/j.procs.2018.05.069.
 - [35] R. Yamashita, M. Nishio, R. Do, and K. Togashi, “Convolutional neural networks: An overview and application in radiology,” *Insights into Imaging*, vol. 9, no. 4, pp. 611–629, 2018, doi: 10.1007/s13244-018-0639-9.
 - [36] I. Goodfellow, Y. Bengio, and A. Courville, *Deep Learning*. MIT Press, 2016, available at <http://www.deeplearningbook.org>.
 - [37] A. Ghosh, A. Sufian, F. Sultana, A. Chakrabarti, and D. De, *Fundamental Concepts of Convolutional Neural Network*, 2020, pp. 519–567, doi: 10.1007/978-3-030-32644-9-36.
 - [38] S. J. Pan and Q. Yang, “A survey on transfer learning,” *IEEE Transactions on Knowledge and Data Engineering*, vol. 22, no. 10, pp. 1345–1359, Oct 2010, doi: 10.1109/TKDE.2009.191.
 - [39] A. Patrawala, Y. Suryawanshi, and K. Patil, “Lemongrass leaf image dataset: Mobile-photographed image compilation,” 2023, doi: 10.17632/9tnbjsj6kn.1.
 - [40] T. Bhargavi and D. Sumathi, “Significance of data augmentation in identifying plant diseases using deep learning,” in *2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT)*, 2023, pp. 1099–1103, doi: 10.1109/ICSSIT55814.2023.10061007.
 - [41] O. Abayomi-Alli, R. Damaševičius, S. Misra, and R. Maskeliunas, “Cassava disease recognition from low-quality images using enhanced data augmentation model and deep learning,” *Expert Systems*, vol. 38, 06 2021, doi: 10.1111/exsy.12746.
 - [42] F. Zhuang, Z. Qi, K. Duan, D. Xi, Y. Zhu, H. Zhu, H. Xiong, and Q. He, “A comprehensive survey on transfer learning,” *Proceedings of the IEEE*, vol. 109, no. 1, pp. 43–76, 2021, doi: 10.1109/JPROC.2020.3004555.

- [43] C. Tan, F. Sun, T. Kong, W. Zhang, C. Yang, and C. Liu, “A survey on deep transfer learning,” in *Artificial Neural Networks and Machine Learning – ICANN 2018*, V. Kůrková, Y. Manolopoulos, B. Hammer, L. Iliadis, and I. Maglogiannis, Eds. Cham: Springer International Publishing, 2018, pp. 270–279, doi: 10.1007/978-3-030-01424-7₂₇.