[13] E. Goceri, "Diagnosis of skin diseases in the era of deep learning and mobile technology," *Comput. Biol. Med.*, vol. 134, no. April, p. 104458, 2021, doi: 10.1016/j.compbiomed.2021.104458.

[14] F. Zhuang *et al.*, "A Comprehensive Survey on Transfer Learning," in *Proceedings of the IEEE*, 2021, vol. 109, no. 1, pp. 43–76, doi: 10.1109/JPROC.2020.3004555.

[15] F. Saxen, P. Werner, S. Handrich, E. Othman, L. Dinges, and A. Al-Hamadi, "Face attribute detection with mobilenetv2 and nasnet-mobile," *Int. Symp. Image Signal Process. Anal. ISPA*, vol. 2019-Septe, no. C, pp. 176–180, 2019, doi: 10.1109/ISPA.2019.8868585.

[16] K. Maharana, S. Mondal, and B. Nemade, "A Review: Data Pre-processing and Data Augmentation T echniques," *Glob. Transitions Proc.*, vol. 3, no. 1, pp. 91–99, 2022, doi: 10.1016/j.gltp.2022.04.020.

[17] S. Agustin, H. Tjandrasa, and R. V. H. Ginardi, "Deep Learning-based Method for Multi-Class Classification of Oil Palm Planted Area on Plant Ages Using Ikonos Panchromatic Imagery," *Int. J. Adv. Sci. Eng. Inf. Technol.*, vol. 10, no. 6, pp. 2200–2206, 2020, doi: 10.18517/ijaseit.10.6.12030.

[18] R. L. Galvez, E. P. Dadios, A. A. Bandala, and R. R. P. Vicerra, "Object detection in x-ray images using transfer learning with data augmentation," *Int. J. Adv. Sci. Eng. Inf. Technol.*, vol. 9, no. 6, pp. 2147–2153, 2019, doi: 10.18517/ijaseit.9.6.9960.

[19] M. Sandler, A. Howard, M. Zhu, A. Zhmoginov, and L. C. Chen, "MobileNetV2: Inverted Residuals and Linear Bottlenecks," in *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 2018, pp. 4510–4520, doi: 10.1109/CVPR.2018.00474.

[20] Y. J. Cheng, Wei Lin, Lu Sun, and Yuan Zhen Liu, "Classification of skin diseases based on improved MobileNetV2," in *2021 33rd Chinese Control and Decision Conference (CCDC)*, 2021, pp. 298–603, doi: 10.1109/CCDC52312.2021.9602387.

[21] L. A. Wu, Y. Wu, and C. Wang, "MobileNet investigation: its application and reproducing edge detectors using depth-wise separable convolution," in *2nd International Conference on Machine Learning and Computer Application*, 2021, pp. 1–6.

[22] A. O. Adedoja, P. A. Owolawi, T. Mapayi, and C. Tu, "Intelligent Mobile Plant Disease Diagnostic System Using NASNet-Mobile Deep Learning," *IAENG Int. J. Comput. Sci.*, vol. 49, no. 1, pp. 216–231, 2022.

[23] Nillmani *et al.*, "Four Types of Multiclass Frameworks for Pneumonia Classification and Its Validation in X-ray Scans Using Seven Types of Deep Learning Artificial Intelligence Models," *Diagnostics*, vol. 12, no. 3, pp. 1–32, 2022, doi: 10.3390/diagnostics12030652.

[24] M. M. Ahsan, K. D. Gupta, M. M. Islam, S. Sen, M. L. Rahman, and M. Shakhawat Hossain, "COVID-19 Symptoms Detection Based on NasNetMobile with Explainable AI Using Various Imaging Modalities," *Mach. Learn. Knowl. Extr.*, vol. 2, no. 4, pp. 490–504, 2020, doi: 10.3390/make2040027.

[25] S. D. Bimorogo, "A Comparative Study of Pretrained Convolutional Neural Network Model to Identify Plant Diseases on Android Mobile Device," *Int. J. Adv. Trends Comput. Sci. Eng.*, vol. 9, no. 3, pp. 2824–2833, 2020, doi: 10.30534/ijatcse/2020/53932020.

[26] T. Shanthi, R. S. Sabeenian, and R. Anand, "Automatic diagnosis of skin diseases using convolution neural network," *Microprocess. Microsyst.*, vol. 76, no. 1–8, p. 103074, 2020, doi: 10.1016/j.micpro.2020.103074.

[27] E. Bisong, *Regularization for Deep Learning. In: Building Machine Learning and Deep Learning Models on Google Cloud Platform*. Berkeley: Apress, 2019.

[28] M. Sokolova and G. Lapalme, "A systematic analysis of performance measures for classification tasks," *Inf. Process. Manag.*, vol. 45, no. 4, pp. 427–437, 2009, doi: 10.1016/j.ipm.2009.03.002.

[29] A. Singh and R. Bhadani, *Mobile Deep Learning with TensorFlow Lite, ML Kit and Flutter*. Birmingham: Packt Publishing, 2020.

[30] W. El-Shafai *et al.*, "Efficient deep CNN model for COVID-19 classification," *Comput. Mater. Contin.*, vol. 70, no. 3, pp. 4373–4391, 2022, doi: 10.32604/cmc.2022.019354.

[31] X. Ying, "An Overview of Overfitting and its Solutions," *J. Phys. Conf. Ser.*, vol. 1168, no. 2, pp. 1–6, 2019, doi: 10.1088/1742-6596/1168/2/022022.

[32] X. Wang, H. Ren, and A. Wang, "Smish: A Novel Activation Function for Deep Learning Methods," *Electronics*, vol. 11, no. 4, pp. 1–15, 2022, doi: 10.3390/electronics11040540.