



DAFTAR PUSTAKA

- Alsing, O., 2018. *Mobile Object Detection using TensorFlow Lite and Transfer Learning*. Master thesis. KTH Royal Institute of Technology. Stockholm. [Accessed 2 Feb. 2022].
- Bera, S. dan Shrivastava, V.K., 2020. Analysis of various optimizers on deep convolutional neural network model in the application of hyperspectral remote sensing image classification. *International Journal of Remote Sensing*, 41(7), pp.2664-2683.
- Bose, S., Mukherjee, M., Kundu, A. dan Banerjee, M., 2018. A comparative study: java vs kotlin programming in android application development. *International Journal of Advanced Research in Computer Science*, 9(3), p.41.
- Brownlee, J., 2019. *A Gentle Introduction to Pooling Layers for Convolutional Neural Networks*. [online] Machine Learning Mastery. Available at: <https://machinelearningmastery.com/pooling-layers-for-convolutional-neural-networks/> [Accessed 3 Feb. 2022].
- Brownlee, J., 2019. *How Do Convolutional Layers Work in Deep Learning Neural Networks?* [online] Machine Learning Mastery. Available at: <https://machinelearningmastery.com/convolutional-layers-for-deep-learning-neural-networks/> [Accessed 28 Feb. 2022].
- Chakraborty, S., Shamrat, F.J.M., Billah, M.M., Al Jubair, M., Alauddin, M. and Ranjan, R., 2021, June. Implementation of deep learning methods to identify rotten fruits. In *2021 5th International Conference on Trends in Electronics and Informatics (ICOEI)* (pp. 1207-1212). IEEE.
- Dandavate, R. and Patodkar, V., 2020, October. CNN and data augmentation based fruit classification model. In *2020 Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC)* (pp. 784-787). IEEE.
- Dharshini, Priya. (2021). *Statistical Data Analysis Techniques in Machine Learning*. [online] Analytics Vidhya. Available at: <https://www.analyticsvidhya.com/blog/2021/06/must-know-statistical-data-analysis-techniques-in-machine-learning/#:~:text=In%20Machine%20Learning%2C%20Data%20Analysis> [Accessed 18 Apr. 2022].
- Di Martino, S., Fasolino, A.R., Starace, L.L.L. dan Tramontana, P., 2021. Comparing the effectiveness of capture and replay against automatic input

generation for Android graphical user interface testing. *Software Testing, Verification and Reliability*, 31(3), p.e1754.

Eason, J. (2016). *Support Ended for Eclipse Android Developer Tools*. [online] Android Developers Blog. Available at: <https://android-developers.googleblog.com/2016/11/support-ended-for-eclipse-android.html> [Accessed 21 Jan. 2022].

Google Developers. (n.d.). *Descending into ML: Training and Loss*. [online] Machine Learning Crash Course. Available at: <https://developers.google.com/machine-learning/crash-course/descending-into-ml/training-and-loss#:~:text=Loss%20is%20the%20penalty%20for> [Accessed 22 Feb. 2022].

Howard, A., Sandler, M., Chu, G., Chen, L.C., Chen, B., Tan, M., Wang, W., Zhu, Y., Pang, R., Vasudevan, V. and Le, Q.V., 2019. Searching for mobilenetv3. In *Proceedings of the IEEE/CVF International Conference on Computer Vision* (pp. 1314-1324).

Jain, V., 2019. *Everything you need to know about MobileNetV3 and its comparison with previous versions*. [online] Medium. Available at: <https://towardsdatascience.com/everything-you-need-to-know-about-mobilenetv3-and-its-comparison-with-previous-versions-a5d5e5a6eeaa> [Accessed 3 May 2022].

Kaiser, L., Gomez, A.N. and Chollet, F., 2017. Depthwise separable convolutions for neural machine translation. arXiv preprint arXiv:1706.03059.

Kamal, K.C., Yin, Z., Wu, M. and Wu, Z., 2019. Depthwise separable convolution architectures for plant disease classification. *Computers and Electronics in Agriculture*, 165, p.104948.

Khaing, Z.M., Naung, Y. and Htut, P.H., 2018, January. Development of control system for fruit classification based on convolutional neural network. In *2018 IEEE conference of russian young researchers in electrical and electronic engineering (EIConRus)* (pp. 1805-1807). IEEE.

Khattab, D., Ebied, H.M., Hussein, A.S. and Tolba, M.F., 2014. Color image segmentation based on different color space models using automatic GrabCut. *The Scientific World Journal*, vol. 2014, Article ID 126025.

Kulkarni, H., 2021. *Evaluation a Classification Model for Data Science*. [online] Available at: <https://www.analyticsvidhya.com/blog/2021/12/evaluation-of-classification-model/> [Accessed 27 May 2022].

- Lardinois, F. (2019). *Kotlin is now Google's preferred language for Android app development.* [online] TechCrunch. Available at: <https://techcrunch.com/2019/05/07/kotlin-is-now-googles-preferred-language-for-android-app-development/> [Accessed 21 Jan. 2022].
- Linares-Vásquez, M., Bernal-Cárdenas, C., Moran, K. dan Poshyvanyk, D., 2017, September. How do developers test android applications?. In *2017 IEEE International Conference on Software Maintenance and Evolution (ICSME)* (pp. 613-622). IEEE.
- Lu, S., Lu, Z., Aok, S. and Graham, L., 2018, November. Fruit classification based on six layer convolutional neural network. In *2018 IEEE 23rd International Conference on Digital Signal Processing (DSP)* (pp. 1-5). IEEE.
- Maiyana, E., 2018. Pemanfaatan Android Dalam Perancangan Aplikasi Kumpulan Doa. *Jurnal Sains dan Informatika: Research of Science and Informatic*, 4(1), pp.54-65.
- Mandal, M. (2021). *CNN for Deep Learning | Convolutional Neural Networks (CNN).* [online] Analytics Vidhya. Available at: <https://www.analyticsvidhya.com/blog/2021/05/convolutional-neural-networks-cnn/> [Accessed 21 Jan. 2022].
- Moriya, S. and Shibata, C., 2018, July. Transfer learning method for very deep CNN for text classification and methods for its evaluation. In *2018 IEEE 42nd annual computer software and applications conference (COMPSAC)* (Vol. 2, pp. 153-158). IEEE.
- Oliver, A., 2021. *Mengenal Google Colab: Mulai dari Definisi, Cara Menggunakan, hingga Manfaatnya.* [online] Glints Blog. Available at: <https://glints.com/id/lowongan/google-colab-adalah/#.YnpDKuhBzIU> [Accessed 10 May 2022].
- Pickell, D. (2021). *What Is the Data Analysis Process? 5 Key Steps to Follow.* [online] G2: Business Software and Services Reviews. Available at: <https://www.g2.com/articles/data-analysis-process> [Accessed 18 Apr. 2022].
- Press, G. (2016). *Cleaning Big Data: Most Time-Consuming, Least Enjoyable Data Science Task, Survey Says.* [online] Forbes. Available at: <https://www.forbes.com/sites/gilpress/2016/03/23/data-preparation-most-time-consuming-least-enjoyable-data-science-task-survey-says/?sh=2e980f7d6f63> [Accessed 18 Apr. 2022].



- Rabano, S.L., Cabatuan, M.K., Sybingco, E., Dadios, E.P. and Calilung, E.J., 2018, November. Common garbage classification using mobilenet. In *2018 IEEE 10th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM)* (pp. 1-4). IEEE.
- Ray, 2020. *Computer Vision — Understanding GrabCut Algorithm without the Maths.* [online] Analytics Vidhya. Available at: <https://medium.com/analytics-vidhya/computer-vision-understanding-grabcut-algorithm-without-the-maths-9a97ef4c5ba3> [Accessed 18 Jun. 2022].
- Rodriguez, J., 2019. *Google Open Sources MobileNetV3 with New Ideas to Improve Mobile Computer Vision Models.* [online] Available at: <https://www.kdnuggets.com/2019/12/google-open-sources-mobilenetv3-improve-mobile-computer-vision-models.html> [Accessed 4 May 2022].
- Rojas-Aranda, J.L., Nunez-Varela, J.I., Cuevas-Tello, J.C. and Rangel-Ramirez, G., 2020, June. Fruit classification for retail stores using deep learning. In *Mexican Conference on Pattern Recognition* (pp. 3-13). Springer, Cham.
- Rother, C., Kolmogorov, V. and Blake, A., 2004. "GrabCut" interactive foreground extraction using iterated graph cuts. *ACM transactions on graphics (TOG)*, 23(3), pp.309-314.
- Sandler, M., Howard, A., Zhu, M., Zhmoginov, A. and Chen, L.C., 2018. Mobilenetv2: Inverted residuals and linear bottlenecks. In *Proceedings of the IEEE conference on computer vision and pattern recognition* (pp. 4510-4520).
- Saxena, S. (2021). *Image Augmentation Techniques for Training Deep Learning Models.* [online] Analytics Vidhya. Available at: <https://www.analyticsvidhya.com/blog/2021/03/image-augmentation-techniques-for-training-deep-learning-models> [Accessed 25 Mar. 2022].
- Schlüter, N. (2019). *Don't Overfit!—How to prevent Overfitting in your Deep Learning Models.* [online] Medium. Available at: <https://towardsdatascience.com/dont-overfit-how-to-prevent-overfitting-in-your-deep-learning-models-63274e552323> [Accessed 22 Feb. 2022].
- Schutt, R. and O'Neil, C., 2013. *Doing data science: Straight talk from the frontline.* Sebastopol, CA: O'Reilly.
- Selig, J. (2022). *What is Machine Learning? A definition.* [online] Expert.ai. Available at: <https://www.expert.ai/blog/machine-learning-definition/> [Accessed 6 Apr. 2022].

- Shung, K. P., 2018. *Accuracy, Precision, Recall or F1?* [online] Towards Data Science. Available at: <https://towardsdatascience.com/accuracy-precision-recall-or-f1-331fb37c5cb9> [Accessed 27 May 2022].
- Sun, S., Jiang, M., He, D., Long, Y. and Song, H., 2019. Recognition of green apples in an orchard environment by combining the GrabCut model and Ncut algorithm. *Biosystems Engineering*, 187, pp.201-213.
- TensorFlow Team, 2019. *Effective TensorFlow 2.0: Best Practices and What's Changed.* [online] Available at: <https://blog.tensorflow.org/2019/02/effective-tensorflow-20-best-practices.html> [Accessed 21 Jan. 2022].
- TensorFlow. (n.d.). *Training and evaluation with the built-in methods.* [online] Available at: https://www.tensorflow.org/guide/keras/train_and_evaluate [Accessed 22 Feb. 2022].
- Tsang, S.-H. (2019). *Review: MobileNetV2 — Light Weight Model (Image Classification).* [online] Medium. Available at: <https://towardsdatascience.com/review-mobilenetv2-light-weight-model-image-classification-8febb490e61c> [Accessed 4 May 2022].
- Venkatesh, Nagaraju, Y., Hegde, S.U. and Stalin, S., 2021, January. Fine-tuned mobilenet classifier for classification of strawberry and cherry fruit types. In *2021 International Conference on Computer Communication and Informatics (ICCCI)* (pp. 1-8). IEEE.
- Wang, W., Li, Y., Zou, T., Wang, X., You, J. and Luo, Y., 2020. A novel image classification approach via dense-MobileNet models. *Mobile Information Systems*, vol. 2020, Article ID 7602384.
- Yu, L., Li, B. dan Jiao, B., 2019, April. Research and Implementation of CNN Based on TensorFlow. In *IOP Conference Series: Materials Science and Engineering* (Vol. 490, No. 4, p. 042022). IOP Publishing.
- Zach, 2021. *Validation Set vs. Test Set: What's the Difference?* [online] Statology. Available at: <https://www.statology.org/validation-set-vs-test-set/#:~:text=What%20is%20this%3F&text=One%20point%20of%20confusion%20for> [Accessed 22 May 2022].
- Zhang, Y.D., Dong, Z., Chen, X., Jia, W., Du, S., Muhammad, K. and Wang, S.H., 2019. Image based fruit category classification by 13-layer deep convolutional neural network and data augmentation. *Multimedia Tools and Applications*, 78(3), pp.3613-3632.