

## DAFTAR PUSTAKA

- Abadi, M., Agarwal, A., Barham, P., Brevdo, E., Chen, Z., Citro, C., Corrado, G. S., Davis, A., Dean, J., Devin, M., Ghemawat, S., Goodfellow, I., Harp, A., Irving, G., Isard, M., Jozefowicz, R., Jia, Y., Kaiser, L., Kudlur, M., Levenberg, J., Mané, D., Schuster, M., Monga, R., Moore, S., Murray, D., Olah, C., Shlens, J., Steiner, B., Sutskever, I., Talwar, K., Tucker, P., Vanhoucke, V., Vasudevan, V., Viégas, F., Vinyals, O., Warden, P., Wattenberg, M., Wicke, M., Yu, Y., dan Zheng, X., 2016, Tensorflow: A system for large-scale machine learning, In 12th \$USENIX\$ Symposium on Operating Systems Design and Implementation (\$OSDI\$ 16), 265–283.
- Arjunan, S.P. dan Thomas, M.C., 2020, A review of ultrasound imaging techniques for the detection of Down Syndrome, *IRBM*, 41(2), 115–123.
- Arora, A., Nagda, M.K., dan Poovammal, E., 2019, Image classification using a hybrid LSTM-CNN Deep Neural Network, *International Journal of Engineering and Advanced Technology*, 8(6), 1342–1348.
- Aslam, A. dan Curry, E., 2021, Investigating response time and accuracy in online classifier learning for multimedia publish-subscribe systems, *Multimedia Tools and Applications*, 80(9), 13021–13057.
- Bonner, A., 2019, The complete beginner's guide to deep learning: Convolutional Neural Networks. *Medium*, Available at: <https://towardsdatascience.com/wtf-is-image-classification-8e78a8235acb> (Accessed October 23, 2021).
- Brownlee, J., 2020. What is deep learning? Machine Learning Mastery. Available at: <https://machinelearningmastery.com/what-is-deep-learning/> [Accessed November 13, 2021].
- Brownlee, J., 2021, A gentle introduction to long short-term memory networks by the experts, *Machine Learning Mastery*, Available at: <https://machinelearningmastery.com/gentle-introduction-long-short-term-memory-networks-experts/> (Accessed October 25, 2021).
- Chandra, D., Rawat, S.S. dan Nijhawan, R., 2019, A machine learning based approach for progeria syndrome detection, *2019 4th International Conference on Information Systems and Computer Networks (ISCON)*.
- Clark, A., 2015, Pillow (PIL Fork) Documentation, readthedocs. Available at: <https://buildmedia.readthedocs.org/media/pdf/pillow/latest/pillow.pdf>.

Corrêa D., Salvadeo D., Levada A., dan Saito J., 2008, Using LSTM Network in Face Classification Problems, Available at: [https://www.researchgate.net/publication/242580889\\_Using\\_LSTM\\_Network\\_in\\_Face\\_Classification\\_Problems](https://www.researchgate.net/publication/242580889_Using_LSTM_Network_in_Face_Classification_Problems) (Accessed: 25 October 2021)

Cristianini, N. dan Shawe-Taylor, J., 2006, *An introduction to support vector machines: And other kernel-based learning methods*, Cambridge: Cambridge University Press.

Dreiseitl, S. dan Ohno-Machado, L., 2002, Logistic regression and Artificial Neural Network Classification models: A methodology review, *Journal of Biomedical Informatics*, 35(5-6), 352–359.

Feng, B., Hoskins W., Zhang Y., Meng Z., Samuels D.C., Guo Y., dan Tang J., 2017, Down syndrome prediction/screening model based on Deep Learning and Illumina genotyping array, *2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*.

Grossfeld, B., 2020, Deep Learning vs. machine learning: What's the difference? Zendesk, Available at: <https://www.zendesk.com/blog/machine-learning-and-deep-learning/> (Accessed November 13, 2021).

Hale, J., 2020. Don't sweat the solver stuff. Medium. Available at: <https://towardsdatascience.com/dont-sweat-the-solver-stuff-aea7cddc3451#:~:text=lbfgs%20%E2%80%94%20Stands%20for%20Limited%20memory,fast%20with%20large%20data%20sets.> [Accessed March 21, 2022].

Hidaka, A. & Kurita, T., 2017, Consecutive dimensionality reduction by canonical correlation analysis for visualization of Convolutional Neural Networks, *Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and its Applications*, 2017, 160–167.

Hochreiter, S. dan Schmidhuber, J., 1997, Long short-term memory, *Neural Computation*, 9(8), 1735–1780.

Holdermann, F. dan Kazmierczak, H., 1972, Preprocessing of gray-scale pictures. *Computer Graphics and Image Processing*, 1(1), 66–80.

Hosmer, D.W., Lemeshow, S. dan Sturdivant, R.X., 2013, *Applied Logistic Regression*, Hoboken, NJ: Wiley.

Huilgol, P., 2020, Precision vs recall: Precision and recall machine learning, Analytics Vidhya., Available at: <https://www.analyticsvidhya.com/blog/2020/09/precision-recall-machine-learning/> (Accessed December 18, 2021).

- Kim, P., 2017, Convolutional Neural Network, MATLAB Deep Learning, 121–147.
- Kumar, S., 2021, 20x times faster grid search cross-validation. Medium. Available at: <https://towardsdatascience.com/20x-times-faster-grid-search-cross-validation-19ef01409b7c#:~:text=Grid%20Search%20CV%3A,grid%20search%20cross%2Dvalidation%20implementation.> (Accessed April 14, 2022).
- LeCun, Y., Bengio, Y. dan Hinton, G., 2015, Deep learning, *Nature*, 521(7553), 436–444.
- L. Perez and J. Wang. The effectiveness of data augmentation in image classification using deep learning, 2017.
- Maladkar, K., 2020, Overview of convolutional neural network in image classification, *Analytics India Magazine*, Available at: <https://analyticsindiamag.com/convolutional-neural-network-image-classification-overview/> (Accessed October 23, 2021).
- Mittal, A., Gaur, H. dan Mishra, M., 2019, Detection of down syndrome using deep facial recognition, *Proceedings of 3rd International Conference on Computer Vision and Image Processing*, 119–130.
- Ongsulee, P., 2017, Artificial Intelligence, Machine Learning and deep learning, *2017 15th International Conference on ICT and Knowledge Engineering (ICT&KE)*.
- Panch, T., Szolovits, P. dan Atun, R., 2018, Artificial Intelligence, Machine Learning and Health Systems, *Journal of Global Health*, 8(2).
- Pedregosa, F., Varoquaux, G., Gramfort, A., Michel, V., Thirion, B., Grisel, O., Blondel, M., Prettenhofer, P., Weiss, R., Dubourg, V., Vanderplas, J., Passos, A., Cournapeau, D., Brucher, M., Perrot, M., dan Duchesnay, E., 2011, Scikit-learn: Machine learning in Python, *Journal of machine learning research*, 12(Oct), 2825–2830.
- Qin, B., Liang L., Wu J., Quan Q., Wang Z., dan Li D., 2020, Automatic identification of down syndrome using facial images with deep convolutional neural network, *Diagnostics*, 10(7), 487.
- Rahman, F., 2020, Logistic regression for Image Classification, *Medium*, Available at: <https://medium.com/swlh/logistic-regression-for-image-classification-e15d0ae59ce9> (Accessed October 23, 2021).
- Ramesh, A., Kambhampati, C., Monson, J., dan Drew, P. 2004, Artificial Intelligence in medicine, *Annals of The Royal College of Surgeons of England*, 86(5), 334–338.

- Samsudiney, 2019, Penjelasan Sederhana Tentang APA ITU SVM? Medium. Available at: <https://medium.com/@samsudiney/penjelasan-sederhana-tentang-apa-itu-svm-149fec72bd02> (Accessed November 13, 2021).
- Schratz, P., Muenchow, J., Iturritxa, E., Richter, J., dan Brenning, A., 2019, Hyperparameter tuning and performance assessment of statistical and machine-learning algorithms using Spatial Data, *Ecological Modelling*, 406, 109–120.
- Shukla, P., Singh P., Balasubramanian R., Gupta T., dan Saini A., 2017, A deep learning frame-work for recognizing developmental disorders, *2017 IEEE Winter Conference on Applications of Computer Vision (WACV)*.
- Takimoglu, A., 2022, Top data augmentation techniques: Ultimate guide for 2022, AIMultiple, Available at: <https://research.aimultiple.com/data-augmentation-techniques/> (Accessed April 14, 2022).
- Tyagi, N., 2021, 6 major branches of Artificial Intelligence (AI), Analytics Steps. Available at: <https://www.analyticssteps.com/blogs/6-major-branches-artificial-intelligence-ai> (Accessed March 9, 2022).
- Wang, S.C., 2003, Artificial Neural Network, *Interdisciplinary Computing in Java Programming*, 81–100.
- Wittek, P., 2014, Machine learning, *Quantum Machine Learning*, 11–24.
- Yekdast, R., 2019, An Intelligent Method for Down Syndrome Detection in Fetuses Using Ultrasound Images and Deep Learning Neural Networks, *Computational Research Progress in Applied Science & Engineering*, 05(03), 92–97.
- Zhao, Q., Summar M.L., dan Zand D., 2013, Down syndrome detection from facial photographs using machine learning techniques, *Medical Imaging 2013: Computer-Aided Diagnosis*.