DAFTAR PUSTAKA

Agung, E. S., Rifai, A. P., & Wijayanto, T. (2024). Image-based facial emotion recognition using convolutional neural network on emognition dataset. *Scientific Reports*, *14*(1). https://doi.org/10.1038/s41598-024-65276-x

Akbar, A. F., Ayu, P. D. W., & Hostiadi, D. P. (2025). Performance Analysis of Deep. *JUITA: Jurnal Informatika*, *13*(2), 167–176. https://doi.org/10.30595/juita.v13i2.25790

Akhand, M. A. H., Roy, S., Siddique, N., Kamal, M. A. S., & Shimamura, T. (2021). Facial emotion recognition using transfer learning in the deep CNN. *Electronics (Switzerland)*, *10*(9), 1036. https://doi.org/10.3390/electronics10091036

Akma Mahamad Amin, N., Nur Amir Sjarif, N., & Sophiayati Yuhaniz, S. (2025). A Comparative Study of Facial Feature Extraction Using MTCNN, Retinaface and Dlib Face Detector for Personality Traits Recognition. *Malaysian Journal of Computer Science*, *38*(2). https://doi.org/10.22452/mjcs.vol38no2.2

Alrimy, T., Alloqmani, A., Alotaibi, A., Aljohani, N., & Kammoun, S. (2022). Facial Expression Recognition Based on Well-Known ConvNet Architectures. *Journal of King Abdulaziz University: Computing and Information Technology Sciences*, *11*(2), 33–43. https://doi.org/10.4197/comp.11-2.3

Alzubaidi, L., Zhang, J., Humaidi, A. J., Al-Dujaili, A., Duan, Y., Al-Shamma, O., Santamaría, J., Fadhel, M. A., Al-Amidie, M., & Farhan, L. (2021). Review of deep learning: concepts, CNN architectures, challenges, applications, future directions. *Journal of Big Data*, *8*(1), 53. https://doi.org/10.1186/s40537-021-00444-8

Ariefa, I., Jiwo Satrio, H., Kumalaningrum, D., Handoko, R., Harseno, A., Wisda Nugraha, F., Soedarto SH, J. H., & Tengah, J. (2025). Performance Enhancement of 2D CNN-Based Visual Inspection Using Data Augmentation for Defect Classification in Metal Casting Products. *Jurnal Rekayasa Mesin*, *20*(3), 379–392. https://doi.org/10.32497/jrm.v20i3.7170

Ashillah, S., Gulo, S. A., Rahmi, Y., Yandra Niska, D., & Adventino Gulo, S. (2025). Implementasi Algoritma Pengolahan Citra Digital untuk Perbaikan Kualitas Gambar. *Jurnal Sistem Komputer Dan Kecerdasan Buatan*, *8*(3). https://doi.org/10.47970/siskom-kb.v8i3.823

Banerjee, K., Vishak Prasad, C., Gupta, R. R., Vyas, K., Anushree, H., & Mishra, B. (2021). Exploring alternatives to softmax function. *Proceedings of the 2nd International Conference on Deep Learning Theory and Applications, DeLTA 2021*, 81–86. https://doi.org/10.5220/0010502000810086

Carvalho, M., Pinho, A. J., & Brás, S. (2025). Resampling approaches to handle class imbalance: a review from a data perspective. *Journal of Big Data*, *12*(1). https://doi.org/10.1186/s40537-025-01119-4

Chakraborty, M., Pal, W., Bandyopadhyay, S., & Maulik, U. (2023). Survey on Multi-Objective-Based Parameter Optimization for Deep Learning. *Computer Science*, *24*(3), 321–353. https://doi.org/10.7494/csci.2023.24.3.5479

Challapalli, S. S. A. (2024). Profile Face Recognition and Classification Using Multi-Task

CascadedConvolutional Networks. *Journal of Computer Allied Intelligence*, *2*(6), 65–78. https://doi.org/10.69996/jcai.2024029

Chollet, F., & Watson, M. (2017). *Deep Learning With Python*. https://deeplearningwithpython.io/

Citra, O., Rachmawati, R., Ridho Barakbah, A., & Karlita, T. (2024). Comparison of Activation Functions In Feature Extraction Layer Using Sharpening Filters. *Journal of Applied Engineering and Technological Science*, *6*(2), 1254–1267.

Deist, T. M., Grewal, M., Dankers, F. J. W. M., Alderliesten, T., & Bosman, P. A. N. (2021). *Multi-Objective Learning to Predict Pareto Fronts Using Hypervolume Maximization*. http://arxiv.org/abs/2102.04523

dos Santos, C. F. G., & Papa, J. P. (2024). Rethinking Regularization with Random Label Smoothing. *Neural Processing Letters*, *56*(3), 157. https://doi.org/10.1007/s11063-024-11579-z

Durga, B. K., & Rajesh, V. (2022). A ResNet deep learning based facial recognition design for future multimedia applications. *Computers and Electrical Engineering*, *104*. https://doi.org/10.1016/j.compeleceng.2022.108384

Eko Purwaningsih, I., & Ayu Pratiwi, D. (2023). Alexithymia Tendencies In Adolescents From Sidoharjo Village, Tepus, Gunung Kidul. *Jurnal Spirits*, *14*(1), 74–84. https://doi.org/10.30738/spirits.v14i1.15942

Elsheikh, R. A., Mohamed, M. A., Abou-Taleb, A. M., & Ata, M. M. (2024). Improved facial emotion recognition model based on a novel deep convolutional structure. *Scientific Reports*, *14*(1). https://doi.org/10.1038/s41598-024-79167-8

El-Shekheby, S. (2024). Real-Time Facial Emotion Recognition Using Haar-Cascade Classifier and Mobile-Net in Smart Cities. In A. M. Negm, R. Y. Rizk, R. F. Abdel-Kader, & A. Ahmed (Eds.), *Engineering Solutions Toward Sustainable Development*. Springer, Cham. https://doi.org/10.1007/978-3-031-46491-1_33

Farhoumandi, Nima, Mollaey, Sadegh, Heysieattalab, Soomaayeh, Zarean, Mostafa, Eyvazpour, Reza, *Facial Emotion Recognition Predicts Alexithymia Using Machine Learning, Computational Intelligence and Neuroscience*, 2021, 2053795, 10 pages, 2021. https://doi.org/10.1155/2021/2053795

Florestiyanto, M. Y., Surjono, H. D., & Jati, H. (2026). Benchmarking quantum kernels and modern vision models for compound facial expression recognition. *Scientific Reports*, *16*(1). https://doi.org/10.1038/s41598-026-41514-2

Ghefira Zakiyyah, B., Rokhman, A., & Aris, A. (2025). Hubungan Kecemasan Dengan Alexithymia: Studi Crossectional Pada Remaja. *Jurnal Keperawatan Muhammadiyah*, *10*(2), 2. https://doi.org/10.30651/jkm.v10i3.26956

Greco, A., Strisciuglio, N., Vento, M., & Vigilante, V. (2023). Benchmarking deep networks for facial emotion recognition in the wild. *Multimedia Tools and Applications*, *82*(8), 11189–11220. https://doi.org/10.1007/s11042-022-12790-7

Hanggoro, D. B. D. (2025). Analisis Komparatif Arsitektur Deep Learning Untuk Aplikasi Computer Vision: Studi Literature Review. *Jurnal Komputer Teknologi Informasi Sistem Informasi (JUKTISI)*, *4*(2), 1001–1008. https://doi.org/10.62712/juktisi.v4i2.542

Harjanto, I., Amiruddin, M., & Kunaryo, B. H. (2024). Optimasi Model Deep Learning untuk Rasberry Menggunakan Pruning dan Kuantisasi. *JURNAL ILMIAH TEKNOLOGI INFORMASI DAN KOMUNIKASI (JTIK)*, *15*(2), 360–370. https://doi.org/10.51903/jtikp.v17i1

He, K., Zhang, X., Ren, S., & Sun, J. (2016). Deep Residual Learning for Image Recognition. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 770–778. https://doi.org/10.1109/CVPR.2016.90

Helmiyah, S., & Pramestiawan, R. (2025). Analisis Komparatif Algoritma Machine Learning dengan Metrik Akurasi, Presisi, Recall, dan F1-Score pada Dataset Kacang Kering. *Jurnal Ilmu Komputer Dan Teknologi*, *6*(3), 152–159. https://doi.org/10.35960/ikomti.v6i3.2031

Huang, Z. Y., Chiang, C. C., Chen, J. H., Chen, Y. C., Chung, H. L., Cai, Y. P., & Hsu, H. C. (2023). A study on computer vision for facial emotion recognition. *Scientific Reports*, *13*(1). https://doi.org/10.1038/s41598-023-35446-4

Ioffe, S., & Szegedy, C. (2015). Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift. In F. Batch & D. Blei (Eds.), *Proceedings of the 32nd International Conference on Machine Learning* (pp. 448–456). PMLR. https://proceedings.mlr.press/v37/ioffe15.html

Iqbal, S., Su, J., Kotthoff, L., & Jamshidi, P. (2024). *FlexiBO: A Decoupled Cost-Aware Multi-objective Optimization Approach for Deep Neural Networks (Abstract Reprint)*. www.aaai.org

Khatama Insani, M., & Budi Santoso, D. (2024). Perbandingan Kinerja Model Pre-Trained CNN (VGG16, RESNET, dan INCEPTIONV3) untuk Aplikasi Pengenalan Wajah pada Sistem Absensi Karyawan. *Jurnal Indonesia : Manajemen Informatika Dan Komunikasi (JIMIK)*, *5*(3). https://doi.org/10.35870/jimik.v5i3.925

Kingma, D. P., & Ba, J. (2017). Adam: A Method for Stochastic Optimization. *CoRR*, *abs/1412.6980*. http://arxiv.org/abs/1412.6980

Kopalidis, T., Solachidis, V., Vretos, N., & Daras, P. (2024). Advances in Facial Expression Recognition: A Survey of Methods, Benchmarks, Models, and Datasets. *Information (Switzerland)*, *15*(3), 135. https://doi.org/10.3390/info15030135

LeCun, Y., Eon Bottou, L., Bengio, Y., & Haaner, P. (1998). Gradient-Based Learning Applied to Document Recognition. *Proceedings of the IEEE*, *86*(11), 2278–2324. https://doi.org/10.1109/5.726791

Li, S., & Deng, W. (2019). Reliable Crowdsourcing and Deep Locality-Preserving Learning for Unconstrained Facial Expression Recognition. *IEEE Transactions on Image Processing*, *28*(1), 356–370.

Liang, C., & Dong, J. (n.d.). *Frontiers in Computing and Intelligent Systems A Survey of Deep Learning-based Facial Expression Recognition Research*.

Liang, Y., Tan, J., Xie, Z., Chen, Z., Lin, D., & Yang, Z. (2024). Research on Convolutional Neural Network Inference Acceleration and Performance Optimization for Edge Intelligence. *Sensors*, *24*(1), 240. https://doi.org/10.3390/s24010240

Mahmoud, K. A. A., Badr, M. M., Elmalhy, N. A., Hamdy, R. A., Ahmed, S., & Mordi, A. A. (2024). Transfer learning by fine-tuning pre-trained convolutional neural network

architectures for switchgear fault detection using thermal imaging. *Alexandria Engineering Journal*, *103*, 327–342. https://doi.org/10.1016/j.aej.2024.05.102

Meena, G., Mohbey, K. K., & Kumar, S. (2023). Sentiment analysis on images using convolutional neural networks based Inception-V3 transfer learning approach. *International Journal of Information Management Data Insights*, *3*(1). https://doi.org/10.1016/j.jjimei.2023.100174

Muhammad, F., Murni Arimurthy, A., Chahyati, D., & Artikel Abstrak, I. (2023). Transfer Learning dengan Metode Fine Tuning pada Model Network VGG16 dan ResNet50. *Indonesian Journal of Computer Science Attribution*, *12*(1), 361. https://doi.org/10.33022/ijcs.v12i1.3130

Manalu, H. V., & Rifai, A. P. (2024). Detection of human emotions through facial expressions using hybrid convolutional neural network-recurrent neural network algorithm. *Intelligent Systems with Applications, 21*, Article 200339. https://doi.org/10.1016/j.iswa.2024.200339

Mujahid, M., Kına, E. R. O. L., Rustam, F., Villar, M. G., Alvarado, E. S., de La Torre Diez, I., & Ashraf, I. (2024). Data oversampling and imbalanced datasets: an investigation of performance for machine learning and feature engineering. *Journal of Big Data*, *11*(1). https://doi.org/10.1186/s40537-024-00943-4

Nanni, L., Brahnam, S., Paci, M., & Ghidoni, S. (2022). Comparison of Different Convolutional Neural Network Activation Functions and Methods for Building Ensembles for Small to Midsize Medical Data Sets. *Sensors*, *22*(16). https://doi.org/10.3390/s22166129

Nia, V. P., Ghaffari, A., Zolnouri, M., & Savaria, Y. (2022). *Rethinking Pareto Frontier for Performance Evaluation of Deep Neural Networks*. http://arxiv.org/abs/2202.09275

Nugraha, K. W., & Nurgiyatna, N. (2025). Analisis Tren Penelitian Residual Network (ResNet) melalui Systematic Literature Review dan Bibliometric Analysis. *Sainteks*, *22*(2), 117–131. https://doi.org/10.30595/sainteks.v22i2.27154

Prasetyo, S. E., Haeruddin, H., & Elvis, E. (2025). Evaluasi Efektivitas Teknik Regularisasi Dalam Mengurangi Overfitting Pada Model CNN. *EXPERT: Jurnal Manajemen Sistem Informasi Dan Teknologi*, *15*(2), 123. https://doi.org/10.36448/expert.v15i2.4676

Pratama, D. R. A. N., & Azhar, Y. (2025). Convolutional Neural Network for COVID-19 Detection Using InceptionV3 Transfer Learning. *Jurnal Teknik Informatika (Jutif)*, *6*(2), 483–500. https://doi.org/10.52436/1.jutif.2025.6.2.4094

Pratama, Y., Rasywir, E., Fachruddin, F., Kisbianty, D., & Irawan, B. (2023). Eksperimen Layer Pooling menggunakan Standar Deviasi untuk Klasifikasi Dataset Citra Wajah dengan Metode CNN. *Building of Informatics, Technology and Science (BITS)*, *5*(1). https://doi.org/10.47065/bits.v5i1.3604

Rahayu, S., & Romdoni, S. F. (2025). Bayesian Optimized Pretrained CNNs for Mango Leaf Disease Classification: A Comparative Study. *Jurnal Teknik Informatika (Jutif)*, *6*(5), 3051–3078. https://doi.org/10.52436/1.jutif.2025.6.5.4967

Rainio, O., Teuho, J., & Klén, R. (2024). Evaluation metrics and statistical tests for machine learning. *Scientific Reports*, *14*(1), 6086. https://doi.org/10.1038/s41598-024-56706-x

Ratul, I. J., Zhou, Y., & Yang, K. (2025). Accelerating Deep Learning Inference: A Comparative Analysis of Modern Acceleration Frameworks. *Electronics (Switzerland)*, *14*(15). https://doi.org/10.3390/electronics14152977

Reyad, M., Sarhan, A. M., & Arafa, M. (2023). A modified Adam algorithm for deep neural network optimization. *Neural Computing and Applications*, *35*(23), 17095–17112. https://doi.org/10.1007/s00521-023-08568-z

Reza, M. H., Sibly, M. N. B., Rabbani, S. G., Sadi, S. H., Ahamed, M. F., Shafi, F. B., Sarmun, R., & Chowdhury, M. E. H. (2026). A comprehensive review of convolutional neural networks: foundations, enhancements and applications. In *Neural Computing and Applications* (Vol. 38, Issue 4). Springer Science and Business Media Deutschland GmbH. https://doi.org/10.1007/s00521-025-11827-w

Riana, N. O., Matulessy, A., & Pratitis, N. (2025). Kecerdasan Emosional dengan Kecenderungan Alexithymia pada Remaja. *JIWA: Jurnal Psikologi Indonesia*, *3*, 29–35. https://doi.org/10.30996/jiwa.v3i01.12626

Roy, A. K., Kathania, H. K., & Sharma, A. (2024). *Improvement in Facial Emotion Recognition using Synthetic Data Generated by Diffusion Model*. https://doi.org/10.48550/arXiv.2411.10863

Roy, A. K., Kathania, H. K., Sharma, A., Dey, A., & Ansari, Md. S. A. (2025). ResEmoteNet: Bridging Accuracy and Loss Reduction in Facial Emotion Recognition. *IEEE Signal Processing Letters*, *32*, 491–495. https://doi.org/10.1109/LSP.2024.3521321

Salehin, I., & Kang, D. K. (2023). A Review on Dropout Regularization Approaches for Deep Neural Networks within the Scholarly Domain. In *Electronics (Switzerland)* (Vol. 12, Issue 14). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/electronics12143106

Salsabila, Y. I., Mustofa, H., & Ulinuha, M. A. (2025). Klasifikasi Citra Tumor Otak Menggunakan Teknik Transfer Learning pada Arsitektur ResNet-50. *Journal of Information System, Informatics and Computing*, *9*(1), 128. https://doi.org/10.52362/jisicom.v9i1.1925

Sarıateş, M., & Özbay, E. (2025). A Classifier Model Using Fine-Tuned Convolutional Neural Network and Transfer Learning Approaches for Prostate Cancer Detection. *Applied Sciences (Switzerland)*, *15*(15), 225. https://doi.org/10.3390/app15010225

Schoneveld, L., & Othmani, A. (2022). Towards a General Deep Feature Extractor for Facial Expression Recognition. *IEEE International Conference on Image Processing (ICIP)*. https://doi.org/10.1109/ICIP42928.2021.9506025

Setyawan, A. Y., Jumadi, J., & Nurlatifah, E. (2024a). Deteksi Emosi Pada Citra Wajah Dengan Deep Learning Sebagai Alat Pendukung Terapi Bagi Pengidap Alexithymia. *SMATIKA JURNAL*, *14*(02), 353–362. https://doi.org/10.32664/smatika.v14i02.1368

Shao, H., & Wang, S. (2023). Deep Classification with Linearity-Enhanced Logits to Softmax Function. *Entropy*, *25*(5). https://doi.org/10.3390/e25050727

Sharma, A., Kunika, Riya, Chopra, M., Chouksey, P., & Sadotra, P. (2025). Comparative Analysis of Face Detection Models: MTCNN, YOLO, and a Hybrid Approach. *International Journal of Scientific Research in Computer Science and Engineering*,

13(3), 64–68. https://doi.org/10.26438/ijsrcse.v13i3.668

Srivastava, N., Hinton, G., Krizhevsky, A., & Salakhutdinov, R. (2014). Dropout: A Simple Way to Prevent Neural Networks from Overfitting. *Journal of Machine Learning Research*, *15*, 1929–1958.

Sujon, K. M., Hassan, R., Choi, K., & Samad, M. A. (2025). Accuracy, precision, recall, f1-score, or MCC? empirical evidence from advanced statistics, ML, and XAI for evaluating business predictive models. *Journal of Big Data*, *12*(1). https://doi.org/10.1186/s40537-025-01313-4

Supani, A., Andriani, Y., Indarto, Saputra, H., Joni, A. B., Alfian, D., A.Taqwa, & Silvia H., A. (2023). Enhancing Deeper Layers with Residual Network on CNN Architecture: A Review. *Proceedings of the 6th FIRST 2022 International Conference (FIRST-ESCSI-22)*, 449–457. https://doi.org/10.2991/978-94-6463-118-0_46

Syah, F., Hastono, T., Fairuzabadi, M., Wahyu Ciptadi, P., & Warniasih, K. (2025). Pengenalan Ekspresi Wajah untuk Mendeteksi Ketertarikan Siswa Sekolah Dasar dalam Mata pelajaran Menggunakan Metode CNN (Convolutional Neural Network). *Jurnal Pendidikan Dan Teknologi Indonesia*, *5*(3), 859–867. https://doi.org/10.52436/1.jpti.724

Szegedy, C., Vanhoucke, V., Ioffe, S., & Shlens, J. (2015). Rethinking the Inception Architecture for Computer Vision. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2818–2826. https://doi.org/10.1109/CVPR.2016.308

Trihinas, D., Michael, P., & Symeonides, M. (2024). Evaluating DL Model Scaling Trade-Offs During Inference via an Empirical Benchmark Analysis. *Future Internet*, *16*(12). https://doi.org/10.3390/fi16120468

Vanacore, A., Pellegrino, M. S., & Ciardiello, A. (2024). Fair evaluation of classifier predictive performance based on binary confusion matrix. *Computational Statistics*, *39*(1), 363–383. https://doi.org/10.1007/s00180-022-01301-9

Willis, M. L., Miller, M. J., More, A., & de la Piedad Garcia, X. (2025). Alexithymia and facial expression recognition: A systematic review and meta-analysis. *Journal of Affective Disorders*, *391*. https://doi.org/10.1016/j.jad.2025.119953

Wu, W., Huo, L., Yang, G., Liu, X., & Li, H. (2025). Research into the Application of ResNet in Soil: A Review. *Agriculture (Switzerland)*, *15*(6), 661. https://doi.org/10.3390/agriculture15060661

Yu, L., Wang, W., Li, Z., Ren, Y., Liu, J., Jiao, L., & Xu, Q. (2024). Alexithymia modulates emotion concept activation during facial expression processing. *Cerebral Cortex*, *34*(3). https://doi.org/10.1093/cercor/bhae071

Zangana, H. M., Mustafa, F. M., Mohammed, A. K., & Omar, N. (2024). Enhancing Image Quality With Deep Learning: Techniques And Applications. *Jurnal ELTIKOM*, *8*(2), 119–131. https://doi.org/10.31961/eltikom.v8i2.1242

Zhang, C. bin, Jiang, P. T., Hou, Q., Wei, Y., Han, Q., Li, Z., & Cheng, M. M. (2021). Delving deep into label smoothing. *IEEE Transactions on Image Processing*, *30*, 5984–5996. https://doi.org/10.1109/TIP.2021.3089942

Zhao, X., Wang, L., Zhang, Y., Han, X., Deveci, M., & Parmar, M. (2024). A review of convolutional neural networks in computer vision. *Artificial Intelligence Review*,

57(4). https://doi.org/10.1007/s10462-024-10721-6