

Daftar Pustaka

- Agustina, C., & Bahri, S. (2016). Makna dan Fungsi Ulos dalam Adat Masyarakat Batak Toba di Desa Talang Mandi Kecamatan Mandau Kabupaten Bengkalis. *JOM FISIP*, 3(1), 1–15. <https://jom.unri.ac.id/index.php/JOMFISIP/article/view/8523/8191>
- Alam, I. F., Ihsan Sarita, M., & Sajiah, A. M. (2019). Implementasi Deep Learning Dengan Metode Convolutional Neural Network Untuk Identifikasi Objek Secara Real Time Berbasis Android. *SemanTIK*, 5(2), 237–244. <https://doi.org/10.5281/zenodo.3459374>
- Albelwi, S., & Mahmood, A. (2017). A framework for designing the architectures of deep Convolutional Neural Networks. *Entropy*, 19(6), 1–20. <https://doi.org/10.3390/e19060242>
- Alsing, O. (2018). Mobile Object Detection using TensorFlow Lite and Transfer Learning. In *DEGREE PROJECT COMPUTER SCIENCE AND ENGINEERING*.
- 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). <https://doi.org/10.1186/s40537-021-00444-8>
- Anhar, & Putra, R. A. (2023). Perancangan dan Implementasi Self-Checkout System pada Toko Ritel menggunakan Convolutional Neural Network (CNN). *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, 11(2), 466–478. <https://doi.org/10.26760/elkomika.v11i2.466>
- Chicho, B. T., & Sallow, A. B. (2021). A Comprehensive Survey of Deep Learning Models Based on Keras Framework. *Journal of Soft Computing and Data Mining*, 2(2), 49–62. <https://doi.org/10.30880/jscdm.2021.02.02.005>
- Chollet, F. (2017). *DEEP LEARNING with PYTHON*.

- Dais, D., Bal, İ. E., Smyrou, E., & Sarhosis, V. (2021). Automatic crack classification and segmentation on masonry surfaces using convolutional neural networks and transfer learning. *Automation in Construction*, 1–18. <https://doi.org/10.1016/j.autcon.2021.103606>
- Daqiqi, I. I. (2021). *MACHINE LEARNING: Teori, Studi Kasus dan Implementasi Menggunakan Python*. UR PRESS. <https://doi.org/10.5281/zenodo.5113507>
- Deng, L., & Yu, D. (2013). Deep learning: Methods and applications. In *Foundations and Trends in Signal Processing* (Vol. 7, Issues 3–4, pp. 197–387). Now Publishers Inc. <https://doi.org/10.1561/20000000039>
- Du, K. L., Leung, C. S., Mow, W. H., & Swamy, M. N. S. (2022). Perceptron: Learning, Generalization, Model Selection, Fault Tolerance, and Role in the Deep Learning Era. In *Mathematics* (Vol. 10, Issue 24, pp. 1–46). MDPI. <https://doi.org/10.3390/math10244730>
- Eka Putra, A., Farid Naufal, M., & Riandaru Prasetyo, V. (2023). Klasifikasi Jenis Rempah Menggunakan Convolutional Neural Network dan Transfer Learning. *JEPIN (Jurnal Edukasi Dan Penelitian Informatika)*, 9(1), 12–18.
- Esterlina Br Jabat, D., Yanti Sipayung, L., & Raih Syahputra Dakhi, K. (2024). Penerapan Algoritma Recurrent Neural Networks (RNN) Untuk Klasifikasi Ulos Batak Toba. *SNISTIK : Seminar Nasional Inovasi Sains Teknologi Informasi Komputer*, 1(2), 3025–8715.
- Fan, Y., Li, J., Bhatti, U. A., Shao, C., Gong, C., Cheng, J., & Chen, Y. (2023). A Multi-Watermarking Algorithm for Medical Images Using Inception V3 and DCT. *Computers, Materials and Continua*, 74(1), 1279–1302. <https://doi.org/10.32604/cmc.2023.031445>
- Ferian, M., Akbari, R., Rahayudi, B., & Muflikhah, L. (2023). Implementasi Deep Learning menggunakan Algoritma EfficientDet untuk Sistem Deteksi Kelayakan Penerima Bantuan Langsung Tunai berdasarkan Citra Rumah di Wilayah Kabupaten Kediri. *Jurnal Pengembangan Teknologi Informasi Dan Ilmu Komputer*, 7(4), 1817–1825. <https://j-ptiik.ub.ac.id/index.php/j-ptiik/article/view/12596>
- Gusmanda, I., Raharjo, J., & Suartono, E. (2023). Deteksi Penyakit Pneumonia Berbasis Citra X-Ray Menggunakan Cnn Arsitektur Vgg-19. *E-Proceeding of*

- Engineering*, 10(6), 5178–5181.
<https://openlibrarypublications.telkomuniversity.ac.id/index.php/engineering/article/view/21544>
- Hariani, E., & Kusumastuti, A. (2023). Study Of Functions, Motifs, And Symbolic Meanings Of Toba Batak Ulos Sadum Woven Fabrics In North Sumatra. *FFEJ*, 12(1), 32–47. <https://journal.unnes.ac.id/sju/index.php/ffe/index>
- Hindarto, D. (2023). Comparative Analysis VGG16 Vs MobileNet Performance for Fish Identification. *International Journal Software Engineering and Computer Science (IJSECS)*, 3(3), 270–280.
<https://doi.org/https://doi.org/10.35870/ijsecs.v3i3.1763>
- Howard, A., Sandler, M., Chu, G., Chen, L.-C., Chen, B., Tan, M., Wang, W., Zhu, Y., Pang, R., Vasudevan, V., Le, Q. V., & Adam, H. (2019, May 6). Searching for MobileNetV3. *ICCV 2019*. <http://arxiv.org/abs/1905.02244>
- Julianto, A., Sunyoto, A., Ferry, D., & Wibowo, W. (2022). Optimasi Hyperparameter Convolutional Neural Network Untuk Klasifikasi Penyakit Tanaman Padi. *TEKNIMEDIA*, 3(2), 98–105.
<https://doi.org/https://doi.org/10.46764/teknimedia.v3i2.77>
- Kacprzyk, J., & Pedrycz, W. (2015). *Handbook of Computational Intelligence*.
<https://doi.org/10.1007/978-3-662-43505-2>
- Kasasbeh, B., Aldabaybah, B., & Ahmad, H. (2022). Multilayer perceptron artificial neural networks-based model for credit card fraud detection. *Indonesian Journal of Electrical Engineering and Computer Science*, 26(1), 362–373.
<https://doi.org/10.11591/ijeecs.v26.i1.pp362-373>
- Kiaei, A. A., Boush, M., Safaei, D., Abadijou, S., Baselizadeh, N., Salari, N., & Mohammadi, M. (2023). Active Identity Function as Activation Function. *Preprints*, 1–15. <https://doi.org/10.20944/preprints202305.1018.v1>
- Konar, J., Khandelwal, P., & Tripathi, R. (2020, February 1). Comparison of Various Learning Rate Scheduling Techniques on Convolutional Neural Network. *2020 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2020*.
<https://doi.org/10.1109/SCEECS48394.2020.94>

- Krichen, M. (2023). Convolutional Neural Networks: A Survey. *Computers*, 12(8), 1–41. <https://doi.org/10.3390/computers12080151>
- Kristina Br Karosekali, E., Sihombing, K., & Sinulingga, J. (2024). Fungsi dan Motif Ulos Mangiring pada Etnik Batak Toba Kajian Semiotika. *Jurnal Pendidikan Tambusai*, 8(1), 11737–11743.
- Manurung, D. H., Lattu, I. M., & Tulus, R. (2020). Struktur Cosmos Masyarakat Batak dalam Simbol Ulos. *Anthropos: Jurnal Antropologi Sosial Dan Budaya (Journal of Social and Cultural Anthropology)*, 6(1), 31. <https://doi.org/10.24114/antro.v6i1.16603>
- Mawan, R. (2020). Klasifikasi motif batik menggunakan convolutional neural network. *JNANALOKA*, 1(1), 45–50. <https://doi.org/10.36802/jnanaloka>
- Meutia, S., Utami, N., Rahmawati, S., & Himayani, R. (2021). Sistem Saraf Pusat dan Perifer. *Medula*, 11(3), 306–311. <https://doi.org/https://doi.org/10.53089/medula.v11i3.189>
- Noprisson, H., Ermatita, E., Abdiansah, A., Ayumi, V., Purba, M., & Setiawan, H. (2022). Fine-Tuning Transfer Learning Model In Woven Fabric Pattern Classification. *International Journal of Innovative Computing, Information and Control*, 18(6), 1885–1894. <https://doi.org/10.24507/ijicic.18.06.1885>
- Nurhopipah, A., & Hasanah, U. (2020). Dataset Splitting Techniques Comparison For Face Classification on CCTV Images. *IJCCS (Indonesian Journal of Computing and Cybernetics Systems)*, 14(4), 341. <https://doi.org/10.22146/ijccs.58092>
- Özkaraca, O., Bağrıaçık, O. İ., Gürüler, H., Khan, F., Hussain, J., Khan, J., & Laila, U. e. (2023). Multiple Brain Tumor Classification with Dense CNN Architecture Using Brain MRI Images. *Life*, 13(2), 1–16. <https://doi.org/10.3390/life13020349>
- Prahartiningsyah, A. A., & Kurniawan, T. B. (2021). Pengenalan Pola Angka Menggunakan Pendekatan Optimisasi Sistem Kekebalan Buatan (Artificial Immune System). *JURNAL MEDIA INFORMATIKA BUDIDARMA*, 5(3), 856. <https://doi.org/10.30865/mib.v5i3.2997>
- Pramudhita, D. A., Azzahra, F., Arfat, K., Magdalena, R., & Saidah, S. (2023). Strawberry Plant Diseases Classification Using CNN Based on MobileNetV3-Large and EfficientNet-B0 Architecture ARTICLE INFO ABSTRACT. *Jurnal*

- Ilmiah Teknik Elektro Komputer Dan Informatika (JITEKI)*, 9(3), 522–534.
<https://doi.org/10.26555/jiteki.v9i3.26341>
- Prashanth, D. S., Mehta, R. V. K., & Sharma, N. (2020). Classification of Handwritten Devanagari Number - An analysis of Pattern Recognition Tool using Neural Network and CNN. *Procedia Computer Science*, 167, 2445–2457.
<https://doi.org/10.1016/j.procs.2020.03.297>
- Putriany, E., & Ariatmanto, D. (2022). Tampilan Literatur Reviu Sistematis : Identifikasi Jenis Ular Berbasis Computer Vision. *Jurnal Open Access Yayasan Lentera Dua Indonesia*, 5(1), 43–50.
<https://doi.org/https://doi.org/10.36802/jnanaloka.2024.v5-no01-43-50>
- Qudsi, N. K., Asmara, R. A., & Syulistyo, A. R. (2019). *Identifikasi Citra Tulisan Tangan Digital Menggunakan Convolutional Neural Network (CNN)*.
- Ramadhani Putra, E., Widi Nurcahyo, G., & Ilmu Komputer, F. (2024). Penerapan Jaringan Syaraf Tiruan Dengan Algoritma Backpropagation Untuk Memprediksi Kunjungan Poliklinik (Studi Kasus Di Rumah Sakit Otak Dr. Drs. M. Hatta Bukittinggi). *KESATRIA: Jurnal Penerapan Sistem Informasi (Komputer & Manajemen)*, 5(2), 448–457.
<https://www.pkm.tunasbangsa.ac.id/index.php/kesatria/article/view/354>
- Sari, M., Christian Nurcahyo, A., Cahyaningtyas, C., & Monixa Salfarini, E. (2024). Pengenalan Pola Aksara Dungan Kalbar menggunakan Metode Learning Vector Quantization (Lvq). *JIFOTECH (JOURNAL OF INFORMATION TECHNOLOGY)*, 4(1), 143–149.
<https://journal.shantibhuana.ac.id/index.php/jifotech/article/view/874>
- Sennan, S., Pandey, D., Alotaibi, Y., & Alghamdi, S. (2022). A Novel Convolutional Neural Networks Based Spinach Classification and Recognition System. *Computers, Materials and Continua*, 73(1), 343–361.
<https://doi.org/10.32604/cmc.2022.028334>
- Shalehuddin Albawani, R., Tri Anggraeny, F., & Muharrom Al Haromainy, M. (2024). Implementasi SEBLOCK Pada Klasifikasi Citra Penyakit Mata Manusia Dengan Arsitektur MOBILENETV3-SMALL. *Jurnal Mahasiswa Teknik Informatika*, 8(1), 1123–1128. <https://www.semanticscholar.org/paper/IMPLEMENTASI->

SEBLOCK-PADA-KLASIFIKASI-CITRA-MATA-Albawani-

Anggraeny/5231fa359e8fc353a4b48232236073e7d408ec4f

- Shanmuganathan, S. (2016). Artificial neural network modelling: An introduction. In *Studies in Computational Intelligence* (Vol. 628, pp. 1–14). Springer Verlag. https://doi.org/10.1007/978-3-319-28495-8_1
- Siddik, A. M. A., Abdal, A. M., Lawi, A., & Rusdi, E. S. (2024). Ensemble Transfer Learning for Hand-sign Digit Image Classification. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, 43(1), 95–111. <https://doi.org/10.37934/araset.43.1.95111>
- Sievers, B., & Thornton, M. A. (2024). Deep social neuroscience: the promise and peril of using artificial neural networks to study the social brain. *Social Cognitive and Affective Neuroscience*, 19(1), 1–17. <https://doi.org/https://doi.org/10.1093/scan/nsae014>
- Simonyan, K., & Zisserman, A. (2014, September 4). Very Deep Convolutional Networks for Large-Scale Image Recognition. *ICLR 2015*. <http://arxiv.org/abs/1409.1556>
- Sinaga, D. (2020). Jaringan Saraf Tiruan Infeksi Mata Dengan Menggunakan Metode Beraksitektur Multi Layer Perceptron. *Jurnal Majalah Ilmiah Informasi Dan Teknologi Ilmiah (INTI)*, 7(2), 189–192. <https://www.semanticscholar.org/paper/Jaringan-Saraf-Tiruan-Infeksi-Mata-Dengan-Metode-Sinaga/5b3d5ec338ed0e72fa72c30160be5f576cbe1743>
- Sinulingga, J., Betran Tampubolon, R., & Siahaan, P. (2024). Motif Ulos Ragi Hotang Etnik Batak Toba Kajian Semiotik Sosial. *Jurnal Pendidikan Tambusai*, 8(2), 24005–24015.
- Sinulingga, J., Ghani, R., Limbong, A., & Pardede, D. S. (2024). Kain Ulos Motif Ragi Hidup Etnik Batak Toba : Kajian Semiotik Sosial. *Jurnal Pendidikan Tambusai*, 8(2), 24408–24417.
- Siregar, A. F., & Mauritsius, T. (2021). Ulos fabric classification using android-based convolutional neural network. *International Journal of Innovative Computing, Information and Control*, 17(3), 753–766. <https://doi.org/10.24507/ijicic.17.03.753>

- Siregar, B., Panggabean, I. P. S., Fahmi, & Hizriadi, A. (2021). Classification of traditional ulos of Batak Toba using probabilistic neural network. *Journal of Physics: Conference Series*, 1–9. <https://doi.org/10.1088/1742-6596/1882/1/012131>
- Siregar, H., Sera Sitorus, O., & Sinulingga, J. (2024). Motif Ulos Bintang Maratur Etnik Toba Kajian Semiotika. *Jurnal Pendidikan Tambusai*, 8(1), 11731–11736.
- Sitohang, D. H., Siregar, A., Nurhidayati, S. A., & Utara, U. S. (2023). Sejarah dan Makna Ulos Batak Toba. *Jurnal Ilmiah Widya Pustaka Pendidikan*, 11(2), 27–34. <https://jiwpp.unram.ac.id/index.php/widya/article/view/116>
- Sobron Yamin Lubis, M. (2021). *Implementasi Artificial Intelligence pada System Manufaktur Terpadu*. <https://ucs.uisu.ac.id/index.php/semnastek/article/view/4134>
- Suhardin, I., Patombongi, A., & Muhammad Islah, A. (2021). Mengidentifikasi Jenis Tanaman Berdasarkan Citra Daun Menggunakan Algoritma Convolutional Neural Network. *Jurnal Sistem Informasi Dan Teknik Komputer*, 6(2), 100–108. <https://doi.org/https://doi.org/10.51876/simtek.v6i2.101>
- Sutisna, T., Rachmat Raharja, A., Hariyadi, E., & Hafizh Cahaya Putra, V. (2024). Penggunaan Computer Vision untuk Menghitung Jumlah Kendaraan dengan Menggunakan Metode SSD (Single Shoot Detector). *INNOVATIVE: Journal Of Social Science Research*, 4, 6060–6067. <https://j-innovative.org/index.php/Innovative/article/view/10071/6958>
- Szegedy, C., Vanhoucke, V., Ioffe, S., & Shlens, J. (2015). *Rethinking the Inception Architecture for Computer Vision*.
- Tan, M., & Le, Q. V. (2021, April 1). EfficientNetV2: Smaller Models and Faster Training. *ICML 2021*. <http://arxiv.org/abs/2104.00298>
- Tinambunan, E. R. L. (2023). Ulos Batak Toba: Makna Religi dan Implikasinya pada Peradaban dan Estetika. *FORUM Filsafat Dan Teologi*, 52(2), 122–142. <https://doi.org/10.35312/forum.v52i2.583>
- Topno, P. G., & Hussain, A. (2021). Python in the context of artificial intelligence. *Indian Journal Of Technical Education*, 9(1), 1–13. <https://www.ijte.in/pdf/Python%20in%20the%20context%20of%20artificial%200intelligence.pdf>

- Wahyudi, J., & Maulida, I. (2019). Pengenalan Pola Citra Kain Tradisional Menggunakan GLCM dan KNN. *JTIULM*, 4(2), 43–48. <https://doi.org/https://doi.org/10.20527/jtiulm.v4i2.37>
- Widiastuti, F., Kaswidjanti, W., & Rustamaji, H. C. (2014). Jaringan Saraf Tiruan Backpropagation Untuk Aplikasi Pengenalan Tanda Tangan. *TELEMATIKA*, 11(1), 69–76. <http://jurnal.upnyk.ac.id/index.php/telematika/article/view/514>
- Wijaya, A. E., Swastika, W., & Kelana, O. H. (2021). Implementasi Transfer Learning Pada Convolutional Neural Network Untuk Diagnosis Covid-19 Dan Pneumonia Pada Citra X-Ray. *SAINSBERTEK Jurnal Ilmiah Sains & Teknologi*, 2(1).
- Wijoyo, A., Saputra, A. Y., Ristanti, S., Sya'ban, R., Amalia, M., & Febriansyah, R. (2024). Pembelajaran Machine Learning. *OKTAL : Jurnal Ilmu Komputer Dan Science*, 3(2), 375–380. <https://journal.mediapublikasi.id/index.php/oktal/article/view/2305>
- Yani, M., Irawan, B., & Setiningsih, C. (2019). Application of Transfer Learning Using Convolutional Neural Network Method for Early Detection of Terry's Nail. *International Conference on Electronics Representation and Algorithm (ICERA 2019)*, 1201(1), 1–9. <https://doi.org/10.1088/1742-6596/1201/1/012052>
- Zhang, C., & Lu, Y. (2021). Study on artificial intelligence: The state of the art and future prospects. *Journal of Industrial Information Integration*, 23, 1–9. <https://doi.org/10.1016/j.jii.2021.100224>
- Zhang, M., Millar, M. A., Chen, S., Ren, Y., Yu, Z., & Yu, J. (2024). Enhancing hourly heat demand prediction through artificial neural networks: A national level case study. *Energy and AI*, 15, 1–12. <https://doi.org/10.1016/j.egyai.2023.100315>
- Zhao, L., & Zhang, Z. (2024). A improved pooling method for convolutional neural networks. In *Scientific Reports* (Vol. 14, Issue 1). Nature Research. <https://doi.org/10.1038/s41598-024-51258-6>