

DAFTAR PUSTAKA

- [1] G. P. H. P. Gusti, E. Haerani, and F. Syafria, "Implementasi Algoritma Convolutional Neural Network (Resnet-50) untuk Klasifikasi Kanker Kulit Benign dan Malignant," *MALCOM Indones. J. Mach. Learn. Comput. Sci.*, vol. 4, no. 3, pp. 984–992, 2024, doi: 10.57152/malcom.v4i3.1398.
- [2] "Skin cancer statistics | World Cancer Research Fund." Accessed: May 13, 2025. [Online]. Available: <https://www.wcrf.org/preventing-cancer/cancer-statistics/skin-cancer-statistics/>
- [3] R. R. Saputro, J. Apri, and W. A. Saputra, "Journal of Dinda Klasifikasi Penyakit Kanker Kulit Menggunakan Metode Convolutional Neural Network (Studi Kasus: Melanoma)," *Data Inst. Teknol. Telkom Purwokerto*, vol. 2, no. 1, pp. 52–57, 2022.
- [4] GoodStats, "18.000 Kasus Kanker Kulit Terjadi di Tanah Air, Berikut Daftar Tabir Surya Paling Favorit Indonesia." Accessed: Mar. 26, 2025. [Online]. Available: <https://goodstats.id/article/globocan-2020-18000-kasus-kanker-kulit-terjadi-di-indonesia-berikut-daftar-tabir-surya-paling-favorit-indonesia-JgXU9>
- [5] R. Yohannes and M. E. Al Rivan, "Klasifikasi Jenis Kanker Kulit Menggunakan CNN-SVM," *J. Algoritma.*, vol. 2, no. 2, pp. 133–144, 2022, doi: 10.35957/algoritme.v2i2.2363.
- [6] N. Hasan *et al.*, "Skin cancer: understanding the journey of transformation from conventional to advanced treatment approaches," *Mol. Cancer*, vol. 22, no. 1, pp. 1–70, 2023, doi: 10.1186/s12943-023-01854-3.
- [7] "Angka Kematian karena Kanker Kulit akibat Sinar Matahari Meningkat - Kompas.id." Accessed: Mar. 26, 2025. [Online]. Available: https://www.kompas.id/baca/humaniora/2023/11/10/kematian-karena-kanker-kulit-yang-dipicu-paparan-sinar-matahari-meningkat-tajam?utm_source=chatgpt.com

- [8] B. Cassidy, C. Kendrick, A. Brodzicki, J. Jaworek-Korjakowska, and M. H. Yap, "Analysis of the ISIC image datasets: Usage, benchmarks and recommendations," *Med. Image Anal.*, vol. 75, p. 102305, 2022, doi: 10.1016/j.media.2021.102305.
- [9] D. Kanker, K. Menggunakan, A. Convolutional, and N. Network, "SENASTIKA Universitas Malikussaleh".
- [10] J. Insan, "Sistem Pakar Pra-Diagnosa Penyakit Kulit dengan Metode Forward Chaining dan CNN dan Sains Data".
- [11] C. Zai, "Implementasi Data Mining Sebagai Pengolahan Data," *J. Portal Data*, vol. 2, no. 3, pp. 1–12, 2022, [Online]. Available: <http://portaldata.org/index.php/portaldata/article/view/107>
- [12] M. R. S. Alfarizi, M. Z. Al-farish, M. Taufiqurrahman, G. Ardiansah, and M. Elgar, "Penggunaan Python Sebagai Bahasa Pemrograman untuk Machine Learning dan Deep Learning," *Karya Ilm. Mhs. Bertauhid (KARIMAH TAUHID)*, vol. 2, no. 1, pp. 1–6, 2023.
- [13] A. Vaswani *et al.*, "Attention is all you need," *Adv. Neural Inf. Process. Syst.*, vol. 2017-Decem, no. Nips, pp. 5999–6009, 2017.
- [14] J. P. Vidha Rossa Pratiwi, "Image Captioning Menggunakan Metode Inception-V3 dan Transformer," 2022, [Online]. Available: <https://eproceeding.itenas.ac.id/index.php/fti/article/view/1585/1337>
- [15] T. Febriyanto and S. Syofian, "Technology Information and Data Analytic Implementasi Deep Learning Menggunakan Vision Transformer Untuk Klasifikasi Penyakit Daun Padi," vol. 1, no. 2, pp. 34–39, 2024.
- [16] Z. Liu *et al.*, "Swin Transformer: Hierarchical Vision Transformer using Shifted Windows," *Proc. IEEE Int. Conf. Comput. Vis.*, pp. 9992–10002, 2021, doi: 10.1109/ICCV48922.2021.00986.
- [17] G. Yang, S. Luo, and P. Greer, "Boosting Skin Cancer Classification : A

- Multi-Scale Attention and Ensemble Approach with Vision Transformers,” pp. 1–18, 2025.
- [18] B. Ozdemir, “An innovative deep learning framework for skin cancer detection employing ConvNeXtV2 and focal self-attention mechanisms,” *Results Eng.*, vol. 25, 2025, doi: 10.1016/j.rineng.2024.103692.
 - [19] A. Ali, H. Shahbaz, and R. Damaševičius, “xCViT: Improved Vision Transformer Network with Fusion of CNN and Xception for Skin Disease Recognition with Explainable AI,” 2025. doi: 10.32604/cmc.2025.059301.
 - [20] Y. Nie, “A Deep CNN Transformer Hybrid Model for Skin Lesion Classification of Dermoscopic Images Using Focal Loss,” *Diagnostics*, vol. 13, no. 1, 2023, doi: 10.3390/diagnostics13010072.
 - [21] S. Remya, T. Anjali, and V. Sugumaran, “A Novel Transfer Learning Framework for Multimodal Skin Lesion Analysis,” 2024. doi: 10.1109/ACCESS.2024.3385340.
 - [22] Q. Abbas, Y. Daadaa, U. Rashid, and M. E. A. Ibrahim, “Assist-Dermo: A Lightweight Separable Vision Transformer Model for Multiclass Skin Lesion Classification,” 2023. doi: 10.3390/diagnostics13152531.
 - [23] K. Shehzad *et al.*, “A Deep-Ensemble-Learning-Based Approach for Skin Cancer Diagnosis,” 2023. doi: 10.3390/electronics12061342.
 - [24] K. Tang, J. Su, R. Chen, R. Huang, M. Dai, and Y. Li, “SkinSwinViT: A Lightweight Transformer-Based Method for Multiclass Skin Lesion Classification with Enhanced Generalization Capabilities,” *Appl. Sci.*, vol. 14, no. 10, 2024, doi: 10.3390/app14104005.
 - [25] G. M. Shajimon, I. Ufumaka, and H. Raza, “An Improved Vision-Transformer Network for Skin Cancer Classification,” 2023. doi: 10.1109/BIBM58861.2023.10386067.
 - [26] J. Xie, “Melanoma Detection based on Swin Transformer and SimAM,”

2021. doi: 10.1109/ITNEC52019.2021.9587071.

- [27] M. Mateen, S. Hayat, F. Arshad, Y. Gu, and M. A. Al-antari, “Hybrid Deep Learning Framework for Melanoma Diagnosis Using Dermoscopic Medical Images,” 2024. doi: 10.3390/diagnostics14192242.
- [28] Abdullah, A. Siddique, K. Shaukat, and T. Jan, “An Intelligent Mechanism to Detect Multi-Factor Skin Cancer,” 2024. doi: 10.3390/diagnostics14131359.
- [29] Y. Li, “SUTrans-NET: a hybrid transformer approach to skin lesion segmentation,” *PeerJ Comput. Sci.*, vol. 10, 2024, doi: 10.7717/peerj-cs.1935.
- [30] M. P. Hendaria, A. Asmarajaya, and M. Sri, “KANKER KULIt E-Jurnal Medika Udayana,” *E-Jurnal Med. Udayana*, vol. 2, no. 2, pp. 273–289, 2018, [Online]. Available: <https://ojs.unud.ac.id/index.php/eum/article/view/4944>
- [31] Edmonton Dermatology & Skin Surgery Centre, “Type of Skin Cancer”, [Online]. Available: <https://edmontonderm.ca/medical/types-of-skin-cancer/>
- [32] M. A. Linares, A. Zakaria, and P. Nizran, “Skin Cancer,” *Prim. Care - Clin. Off. Pract.*, vol. 42, no. 4, pp. 645–659, 2015, doi: 10.1016/j.pop.2015.07.006.
- [33] E. Bajetta, S. Canova, and D. L. Cortinovis, “Metastatic melanoma,” *Cancer Chemother. Rev.*, vol. 2, no. 3, pp. 184–192, 2007, doi: 10.3322/caac.21599.
- [34] A. Peryanto *et al.*, “Rancang Bangun Klasifikasi Citra Dengan Teknologi Deep Learning Berbasis Metode Convolutional Neural Network,” vol. 8, pp. 138–147, 2019.
- [35] Michael Lemmon, “Introduction to Deep Learning,” Dept. of Electrical Engineering University of Notre Dame. [Online]. Available: <https://www3.nd.edu/~lemmon/courses/deep-learning/>
- [36] S. Prasetyo and T. Dewayanto, “Penerapan Machine Learning, Deep

- Learning, Dan Data Mining Dalam Deteksi Kecurangan Laporan Keuangan-a Systematic Literature Review,” *Diponegoro J. Account.*, vol. 13, no. 3, pp. 1–12, 2024, [Online]. Available: <http://ejournal-s1.undip.ac.id/index.php/accounting>
- [37] “Apa itu Transformer? - Penjelasan Transformer di Kecerdasan Buatan - AWS.” Accessed: Apr. 25, 2025. [Online]. Available: <https://aws.amazon.com/id/what-is/transformers-in-artificial-intelligence/>
- [38] J. A. Figo, N. Yudistira, and A. W. Widodo, “Deteksi Covid-19 dari Citra X-ray menggunakan Vision Transformer,” vol. 7, no. 3, pp. 1116–1125, 2023.
- [39] X. Zhai *et al.*, “A i w 16 16 w : t i r s,” 2021.
- [40] Cameron R. Wolfe, “Vision Transformer.” [Online]. Available: <https://cameronrwolfe.substack.com/p/vision-transformers>
- [41] Chadrick, “paper summary: Swin Transformer: Hierarchical Vision Transformer using Shifted Windows,” 2021, [Online]. Available: <https://medium.com/nerd-for-tech/paper-summary-swin-transformer-hierarchical-vision-transformer-using-shifted-windows-a6c09c34c79f>
- [42] H. Touvron, M. Cord, M. Douze, F. Massa, A. Sablayrolles, and H. Jégou, “Training data-efficient image transformers & distillation through attention,” *Proc. Mach. Learn. Res.*, vol. 139, pp. 10347–10357, 2021.
- [43] R. Courant, M. Edberg, N. Dufour, and V. Kalogeiton, “Transformers and Visual Transformers,” *Neuromethods*, vol. 197, no. Section 4, pp. 193–229, 2023, doi: 10.1007/978-1-0716-3195-9_6.
- [44] “KDD Process/Overview.” Accessed: May 01, 2025. [Online]. Available: https://www2.cs.uregina.ca/~dbd/cs831/notes/kdd/1_kdd.html
- [45] D. Normawati and S. A. Prayogi, “Implementasi Naïve Bayes Classifier Dan Confusion Matrix Pada Analisis Sentimen Berbasis Teks Pada Twitter,” *J. Sains Komput. Inform. (J-SAKTI)*, vol. 5, no. 2, pp. 697–711, 2021.

- [46] ChartExpo, “What is a Confusion Matrix? A Quick Guide.” [Online]. Available: <https://chartexpo.com/blog/what-is-a-confusion-matrix>
- [47] P. Romadloni, B. Adhi Kusuma, and W. Maulana Baihaqi, “Komparasi Metode Pembelajaran Mesin Untuk Implementasi Pengambilan Keputusan Dalam Menentukan Promosi Jabatan Karyawan,” *JATI (Jurnal Mhs. Tek. Inform.*, vol. 6, no. 2, pp. 622–628, 2022, doi: 10.36040/jati.v6i2.5238.
- [48] O. L. Istifarinta, P. Prajitno, and D. S. Soejoko, “Computer-Aided Detection (CAD) Deteksi Nodul Paru-Paru dari Computed Tomography (CT),” *Interv. J. Med. Phys. Biophys.*, vol. 9, no. 1, pp. 1–8, 2022, [Online]. Available: www.cancerimagingarchive.net
- [49] M. F. Y. Herjanto and C. Carudin, “Analisis Sentimen Ulasan Pengguna Aplikasi Sirekap Pada Play Store Menggunakan Algoritma Random Forest Classifier,” *J. Inform. dan Tek. Elektro Terap.*, vol. 12, no. 2, pp. 1204–1210, 2024, doi: 10.23960/jitet.v12i2.4192.
- [50] A. R. Forest, “Prediksi Kelayakan Calon Peminjam Dana,” vol. 13, no. 5, 2024.
- [51] Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi, *Panduan Program Kreativitas Mahasiswa – Artikel Ilmiah (PKM-AI)*, Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi, 2025.
- [52] Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi, *Panduan Umum Program Kreativitas Mahasiswa (PKM)*, Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi, 2025.
- [53] “Kumpulan Data Tantangan ISIC 2020 | Kumpulan Data Tantangan ISIC 2020.” Accessed: May 09, 2025. [Online]. Available: <https://challenge2020.isic-archive.com/>