

REFERENCES

- [1] A. Vidyarthi, R. Agarwal, D. Gupta, R. Sharma, D. Draheim, and P. Tiwari, "Machine Learning Assisted Methodology for Multiclass Classification of Malignant Brain Tumors," *IEEE Access*, vol. 10, pp. 50624–50640, 2022, doi: <https://doi.org/10.1109/access.2022.3172303>.
- [2] M. Dikande, Aurelle Tchagna Kouanou, V. Monthe, Michael Ka- meni Nana, and Bertrand Moffo Lonla, "A deep learning method for brain tumor classification using MRI data," *Informatics in medicine unlocked*, vol. 44, pp. 101423–101423, Jan. 2024, doi: <https://doi.org/10.1016/j.imu.2023.101423>.
- [3] J. Ferlay et al., "Cancer Statistics for the Year 2020: an Overview," *International Journal of Cancer*, vol. 149, no. 4, Apr. 2021, doi: <https://doi.org/10.1002/ijc.33588>.
- [4] W. Ayadi, W. Elhamzi, I. Charfi, and M. Atri, "Deep CNN for Brain Tumor Classification," *Neural Processing Letters*, vol. 53, no. 1, pp. 671–700, Jan. 2021, doi: <https://doi.org/10.1007/s11063-020-10398-2>.
- [5] X. Lu and D. Zhang, "Expression of lncRNAs in glioma: A lighthouse for patients with glioma," *Heliyon*, vol. 10, no. 3, pp. e24799–e24799, Feb. 2024, doi: <https://doi.org/10.1016/j.heliyon.2024.e24799>.
- [6] Qingqing Lv et al., "Predictive Panel for Immunotherapy in Lower-Grade Glioma," *World neurosurgery*, Jan. 2024, doi: <https://doi.org/10.1016/j.wneu.2024.01.039>.
- [7] T. Chen, F. Xiao, Z. Yu, M. Yuan, H. Xu, and L. Lu, "Detection and Grading of Gliomas Using a Novel Two-Phase Machine Learning Method Based on MRI Images," *Frontiers in Neuroscience*, vol. 15, May 2021, doi: <https://doi.org/10.3389/fnins.2021.650629>.
- [8] S. Mohammed, D. M, and A. T, "Survival and quality of life analysis in glioblastoma multiforme with adjuvant chemoradiotherapy: a retrospective study," *Reports of Practical Oncology and Radiotherapy*, vol. 27, no. 6, pp. 1026–1036, Dec. 2022, doi: <https://doi.org/10.5603/rpor.a2022.0113>.
- [9] A. S. Febrianti, T. A. Sardjono, and A. F. Babgei, "Klasifikasi Tumor Otak pada Citra Magnetic Resonance Image dengan Menggunakan Metode Support Vector Machine," *Jurnal Teknik ITS*, vol. 9, no. 1, Jul. 2020, doi: <https://doi.org/10.12962/j23373539.v9i1.51587>.
- [10] Fahri Aulia Alfarisi Harahap, Anti Nada Nafisa, E. Nia, and Nul Adawiyah Putri, "Implementasi Algoritma Convolutional Neural Network Arsitektur Model MobileNetV2 Dalam Klasifikasi Penyakit Tumor Otak Glioma, Ppituitary dan Meningioma," *Jurnal Teknologi Informasi, Komputer dan Aplikasinya*, vol. 5, no. 1, pp. 53–61, Mar. 2023, doi: <https://doi.org/10.29303/jtika.v5i1.234>.
- [11] F. Su et al., "Annotation-free glioma grading from pathological images using ensemble deep learning," *Heliyon*, vol. 9, no. 3, pp. e14654–e14654, Mar. 2023, doi: <https://doi.org/10.1016/j.heliyon.2023.e14654>.
- [12] E. Tasci, Y. Zhuge, H. Kaur, K. Camphausen, and A. V. Krauze, "Hierarchical Voting-Based Feature Selection and Ensemble Learning Model Scheme for Glioma Grading with

Clinical and Molecular Characteristics,” *International Journal of Molecular Sciences*, vol. 23, no. 22, p. 14155, Nov. 2022, doi: <https://doi.org/10.3390/ijms232214155>.

[13] S. Gutta, J. Acharya, M. S. Shiroishi, D. Hwang, and K. S. Nayak, “Improved Glioma Grading Using Deep Convolutional Neural Networks,” *American Journal of Neuroradiology*, vol. 42, no. 2, pp. 233–239, Dec. 2020, doi: <https://doi.org/10.3174/ajnr.a6882>.

[14] G. Latif, G. Ben Brahim, D. N. F. A. Iskandar, A. Bashar, and J. Al-ghazo, “Glioma Tumors’ Classification Using Deep-Neural-Network-Based Features with SVM Classifier,” *Diagnostics*, vol. 12, no. 4, p. 1018, Apr. 2022, doi: <https://doi.org/10.3390/diagnostics12041018>.

[15] V. S. R. Kumari, “Optimization of Multi-layer Perceptron Neural Network Using Genetic Algorithm for Arrhythmia Classification,” *Communications*, vol. 3, no. 5, p. 150, 2015, doi: <https://doi.org/10.11648/j.com.20150305.21>.

[16] A. Penkova et al., “Comprehensive clinical assays for molecular diagnostics of gliomas: the current state and future prospects,” *Frontiers in Molecular Biosciences*, vol. 10, Oct. 2023, doi: <https://doi.org/10.3389/fmolb.2023.1216102>.

[17] P. Perruzi and V. Prabhu, “Astrocytoma Tumors,” *American Association of Neurological Surgeons*. <https://www.aans.org/patients/conditions-treatments/astrocytoma-tumors/> (accessed Aug. 14, 2024)

[18] M. Rojas, A. Olivera, and P. Vidal, “Optimising Multilayer Perceptron weights and biases through a Cellular Genetic Algorithm for medical data classification,” *Array*, vol. 14, pp. 100173–100173, Apr. 2022, doi: <https://doi.org/10.1016/j.array.2022.100173>.

[19] E. S. Mohamed, T. A. Naqishbandi, S. A. C. Bukhari, I. Rauf, V. Sawrikar, and A. Hussain, “A hybrid mental health prediction model using Support Vector Machine, Multilayer Perceptron, and Random Forest algorithms,” *Healthcare Analytics*, p. 100185, May 2023, doi: <https://doi.org/10.1016/j.health.2023.100185>.

[20] S. Suwarno, “Gender Classification Based on Fingerprint Using Wavelet and Multilayer Perceptron,” *Sinkron*, vol. 8, no. 1, pp. 139–144, Jan. 2023, doi: <https://doi.org/10.33395/sinkron.v8i1.11925>.

[21] A. Palkar, Cifha Crecil Dias, Krishnaraj Chadaga, and Niranjana Sampathila, “Empowering Glioma Prognosis with Transparent Machine Learning and Interpretative Insights Using Explainable AI,” *IEEE access*, pp. 1–1, Jan. 2024, doi: <https://doi.org/10.1109/access.2024.3370238>.

[22] Erdal Tasci, Sarisha Jagasia, Y. Zhuge, K. Camphausen, and Andra Valentina Krauze, “GradWise: A Novel Application of a Rank-Based Weighted Hybrid Filter and Embedded Feature Selection Method for Glioma Grading with Clinical and Molecular Characteristics,” *Cancers*, vol. 15, no. 18, pp. 4628–4628, Sep. 2023, doi: <https://doi.org/10.3390/cancers15184628>.