

DAFTAR PUSTAKA

- [1] *Global Tuberculosis Report 2023*. World Health Organization, 2023. Accessed: Jan. 15, 2025. [Online]. Available: <https://www.who.int/teams/global-tuberculosis-programme/tb-reports/global-tuberculosis-report-2023>
- [2] World Health Organization, “Global Tuberculosis Report 2024,” 2024. Accessed: Jan. 15, 2025. [Online]. Available: <https://www.who.int/teams/global-tuberculosis-programme/tb-reports/global-tuberculosis-report-2024>
- [3] R. O. Nyarko, A. Prakash, N. Kumar, P. Saha, and R. Kumar, “Tuberculosis a Globalized Disease: Review,” *Asian Journal of Pharmaceutical Research and Development*, vol. 9, no. 1, pp. 198–201, 2021, doi: 10.22270/ajprd.v9i1.898.
- [4] L. Alzubaidi *et al.*, “Review of Deep Learning: Concepts, CNN Architectures, Challenges, Applications, Future Directions,” *J Big Data*, vol. 8, no. 1, 2021, doi: 10.1186/s40537-021-00444-8.
- [5] R. Guo, K. Passi, and C. K. Jain, “Tuberculosis Diagnostics and Localization in Chest X-Rays via Deep Learning Models,” *Front Artif Intell*, vol. 3, 2020, doi: 10.3389/frai.2020.583427.
- [6] L. Li, K. Jamieson, G. DeSalvo, A. Rostamizadeh, A. Talwalkar, and U. Berkeley, “HYPERBAND: BANDIT-BASED CONFIGURATION EVALUATION FOR HYPERPARAMETER OPTIMIZATION.” [Online]. Available: <https://github.com/automl/RoBO>.
- [7] L. A. Andika, H. Pratiwi, and S. Sulistijowati Handajani, “Convolutional Neural Network Modeling for Classification of Pulmonary Tuberculosis Disease,” in *Journal of Physics: Conference Series*, Institute of Physics Publishing, 2020. doi: 10.1088/1742-6596/1490/1/012020.
- [8] M. K. Puttagunta and S. Ravi, “Detection of Tuberculosis Based on Deep Learning Based Methods,” in *Journal of Physics: Conference Series*, IOP Publishing Ltd, 2021. doi: 10.1088/1742-6596/1767/1/012004.
- [9] S. Iqbal, A. N. Qureshi, A. Ullah, J. Li, and T. Mahmood, “Improving the Robustness and Quality of Biomedical CNN Models through Adaptive Hyperparameter Tuning,” *Applied Sciences (Switzerland)*, vol. 12, no. 22, Nov. 2022, doi: 10.3390/app122211870.

- [10] P. Lacerda, B. Barros, C. Albuquerque, and A. Conci, "Hyperparameter Optimization For COVID-19 Pneumonia Diagnosis Based on Chest CT," *Sensors*, vol. 21, no. 6, pp. 1–11, 2021, doi: 10.3390/s21062174.
- [11] C. Bakkene, T. Karl Svendsen, and J. A. Eriksen, "Optimization of a Convolutional Neural Network for Classification of Radar Signals Master's thesis in Electronics Systems Design and Innovation," 2021.
- [12] S. M. Lyon and M. D. Rossman, "Pulmonary Tuberculosis," *Microbiol Spectr*, vol. 5, no. 1, Feb. 2017, doi: 10.1128/microbiolspec.TNMI7-0032-2016.
- [13] A. S. Bhalla, A. Goyal, R. Guleria, and A. K. Gupta, "Chest tuberculosis: Radiological review and imaging recommendations," *Indian Journal of Radiology and Imaging*, vol. 25, no. 3, pp. 213–225, Aug. 2015, doi: 10.4103/0971-3026.161431.
- [14] H. Lee and J. Song, "Introduction to convolutional neural network using Keras; An understanding from a statistician," *Commun Stat Appl Methods*, vol. 26, no. 6, pp. 591–610, 2019, doi: 10.29220/CSAM.2019.26.6.591.
- [15] M. Puttagunta and S. Ravi, "Medical image analysis based on deep learning approach," *Multimed Tools Appl*, vol. 80, no. 16, pp. 24365–24398, Jul. 2021, doi: 10.1007/s11042-021-10707-4.
- [16] R. Y. Choi, A. S. Coyner, J. Kalpathy-Cramer, M. F. Chiang, and J. Peter Campbell, "Introduction to machine learning, neural networks, and deep learning," *Transl Vis Sci Technol*, vol. 9, no. 2, 2020, doi: 10.1167/tvst.9.2.14.
- [17] J. Wu, "Introduction to Convolutional Neural Networks," 2017. Accessed: Oct. 17, 2025. [Online]. Available: <https://cs.nju.edu.cn/wujx/paper/CNN.pdf>
- [18] R. Yamashita, M. Nishio, R. K. G. Do, and K. Togashi, "Convolutional Neural Networks: An Overview and Application in Radiology," 2018, *Springer Verlag*. doi: 10.1007/s13244-018-0639-9.
- [19] Z. Liu, Z. Xu, J. Jin, Z. Shen, and T. Darrell, "Dropout Reduces Underfitting," 2023. Accessed: Feb. 18, 2025. [Online]. Available: <https://arxiv.org/abs/2303.01500>
- [20] S. Meduri, "Activation Functions in Neural Networks: A Comprehensive Overview," *International Journal of Research In Computer Applications and Information Technology (IJRCAIT)*, vol. 7, no. 2, pp. 214–227, 2024, doi: 10.5281/zenodo.13950374.

- [21] J. Terven, D. M. Cordova-Esparza, A. Ramirez-Pedraza, E. A. Chavez-Urbiola, and J. A. Romero-Gonzalez, “Loss Functions and Metrics in Deep Learning,” Jul. 2023, [Online]. Available: <http://arxiv.org/abs/2307.02694>
- [22] O. Hospodarskyy, V. Martsenyuk, N. Kukharska, A. Hospodarskyy, and S. Sverstiuk, “Understanding the Adam Optimization Algorithm in Machine Learning,” 2024.
- [23] Ž. Vujović, “Classification Model Evaluation Metrics,” *International Journal of Advanced Computer Science and Applications*, vol. 12, no. 6, pp. 599–606, 2021, doi: 10.14569/IJACSA.2021.0120670.
- [24] A. Chauhan, D. Chauhan, and C. Rout, “DA and DB - TB Chest X-ray Datasets,” 2023, *Kaggle*. Accessed: Jan. 05, 2025. [Online]. Available: <https://www.kaggle.com/datasets/vbookshelf/da-and-db-tb-chest-x-ray-datasets/data>
- [25] K. S. Mader, “Pulmonary Chest X-Ray Abnormalities,” 2018, *Kaggle*. Accessed: Jan. 04, 2025. [Online]. Available: <https://www.kaggle.com/datasets/kmader/pulmonary-chest-xray-abnormalities?select=Montgomery>
- [26] A. Musa, M. I. Adamu, H. A. Kakudi, and Y. Lawal, “Nigeria Chest X-ray Dataset,” 2024, *Kaggle*. doi: 10.34740/KAGGLE/DSV/9370352.