

Daftar Pustaka

- [1] A. R. Setiawan, "Lembar Kegiatan Literasi Saintifik untuk Pembelajaran Jarak Jauh Topik Penyakit Coronavirus 2019 (COVID-19)".
- [2] X.-W. Xu *et al.*, "Clinical findings in a group of patients infected with the 2019 novel coronavirus (SARS-CoV-2) outside of Wuhan, China: retrospective case series," *BMJ*, p. m606, Feb. 2020, doi: 10.1136/bmj.m606.
- [3] A. T. Onawole, K. O. Sulaiman, T. U. Kolapo, F. O. Akinde, and R. O. Adegoke, "COVID-19 : CADD to the rescue".
- [4] X. Tang *et al.*, "On the origin and continuing evolution of SARS-CoV-2," *Natl. Sci. Rev.*, vol. 7, no. 6, pp. 1012–1023, Jun. 2020, doi: 10.1093/nsr/nwaa036.
- [5] "WHO Coronavirus Disease (COVID-19) Dashboard." <https://covid19.who.int> (accessed Feb. 21, 2021).
- [6] K. G. Andersen, A. Rambaut, W. I. Lipkin, E. C. Holmes, and R. F. Garry, "The proximal origin of SARS-CoV-2."
- [7] "The granting of emergency use designation to COVID-19 candidate vaccines: implications for COVID-19 vaccine trials | Elsevier Enhanced Reader." <https://reader.elsevier.com/reader/sd/pii/S1473309920309233?token=294FDB727DDAE86086AD14BA6165F460ADCDB945353759DE733E59EB7A4E2C76073BA7748193444242712BCC765727EA&originRegion=eu-west-1&originCreation=20210814190721> (accessed Aug. 15, 2021).
- [8] A. Basiri, Z. Pazhouhnia, N. Beheshtizadeh, M. Hoseinpour, A. Saghadzadeh, and N. Rezaei, "Regenerative Medicine in COVID-19 Treatment: Real Opportunities and Range of Promises," *Stem Cell Rev. Rep.*, vol. 17, no. 1, pp. 163–175, Feb. 2021, doi: 10.1007/s12015-020-09994-5.
- [9] D. Shin *et al.*, "Papain-like protease regulates SARS-CoV-2 viral spread and innate immunity," *Nature*, vol. 587, no. 7835, pp. 657–662, Nov. 2020, doi: 10.1038/s41586-020-2601-5.
- [10] C.-C. Lai, T.-P. Shih, W.-C. Ko, H.-J. Tang, and P.-R. Hsueh, "Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and coronavirus disease-2019 (COVID-19): The epidemic and the challenges," *Int. J. Antimicrob. Agents*, vol. 55, no. 3, p. 105924, Mar. 2020, doi: 10.1016/j.ijantimicag.2020.105924.
- [11] M. Kandeel, Y. Kitade, M. Fayez, K. N. Venugopala, and A. Ibrahim, "The emerging SARS-CoV-2 papain-like protease: Its relationship with recent coronavirus epidemics," *J. Med. Virol.*, vol. 93, no. 3, pp. 1581–1588, 2021, doi: 10.1002/jmv.26497.
- [12] M. U. Mirza, S. Ahmad, I. Abdullah, and M. Froeyen, "Identification of novel human USP2 inhibitor and its putative role in treatment of COVID-19 by inhibiting SARS-CoV-2 papain-like (PLpro) protease," *Comput. Biol. Chem.*, vol. 89, p. 107376, Dec. 2020, doi: 10.1016/j.compbiolchem.2020.107376.
- [13] K.-Z. Myint, L. Wang, Q. Tong, and X.-Q. Xie, "Molecular Fingerprint-Based Artificial Neural Networks QSAR for Ligand Biological Activity Predictions".
- [14] P. Gramatica, "Principles of QSAR models validation: internal and external," *QSAR Comb. Sci.*, vol. 26, no. 5, pp. 694–701, May 2007, doi: 10.1002/qsar.200610151.
- [15] A. Ghaleb, A. Aouidate, H. B. E. Ayouchia, M. Aarjane, H. Anane, and S.-E. Stiriba, "In silico molecular investigations of pyridine N-Oxide compounds as potential inhibitors of SARS-CoV-2: 3D QSAR, molecular docking modeling, and ADMET screening," *J. Biomol. Struct. Dyn.*, pp. 1–11, Aug. 2020, doi: 10.1080/07391102.2020.1808530.
- [16] V. Kumar, "Development of a simple, interpretable and easily transferable QSAR model for quick screening antiviral databases in search of novel 3C-like protease (3CLpro) enzyme inhibitors against SARS-CoV diseases," p. 17.
- [17] Sk. A. Amin, K. Ghosh, S. Gayen, and T. Jha, "Chemical-informatics approach to COVID-19 drug discovery: Monte Carlo based QSAR, virtual screening and molecular docking study of some *in-house* molecules as papain-like protease (PLpro) inhibitors," *J. Biomol. Struct. Dyn.*, pp. 1–10, Jun. 2020, doi: 10.1080/07391102.2020.1780946.
- [18] "springerEBR09.pdf." Accessed: Aug. 15, 2021. [Online]. Available: <http://129.211.169.156/publication/springerEBR09.pdf>
- [19] E. Lutins, "Ensemble Methods in Machine Learning: What are They and Why Use Them?," *Medium*, Aug. 02, 2017. <https://towardsdatascience.com/ensemble-methods-in-machine-learning-what-are-they-and-why-use-them-68ec3f9fef5f> (accessed Aug. 15, 2021).
- [20] L. Chen, "Basic Ensemble Learning (Random Forest, AdaBoost, Gradient Boosting)- Step by Step Explained," *Medium*, Jan. 02, 2019. <https://towardsdatascience.com/basic-ensemble-learning-random-forest-adaboost-gradient-boosting-step-by-step-explained-95d49d1e2725> (accessed Aug. 27, 2021).
- [21] M. Pal, "Random forest classifier for remote sensing classification," *Int. J. Remote Sens.*, vol. 26, no. 1, pp. 217–222, Jan. 2005, doi: 10.1080/01431160412331269698.

- [22] “Clarify of the Random Forest Algorithm in an Educational Field.” <https://ieeexplore.ieee.org/abstract/document/8548804/> (accessed Aug. 16, 2021).
- [23] N. Tyagi, “Understanding the Gini Index and Information Gain in Decision Trees,” *Analytics Steps*, Sep. 30, 2020. <https://medium.com/analytics-steps/understanding-the-gini-index-and-information-gain-in-decision-trees-ab4720518ba8> (accessed Sep. 13, 2021).
- [24] N. Tyagi, “Information Gain, Gini Index, Entropy and Gain Ratio in Decision Trees| Analytics Steps.” <https://www.analyticssteps.com/blogs/what-gini-index-and-information-gain-decision-trees> (accessed Sep. 13, 2021).
- [25] “What is Bagging?,” May 26, 2021. <https://www.ibm.com/cloud/learn/bagging> (accessed Sep. 11, 2021).
- [26] A. Chauhan, “ENSEMBLE METHODS — Bagging, Boosting, and Stacking,” *Analytics Vidhya*, Feb. 08, 2021. <https://medium.com/analytics-vidhya/ensemble-methods-bagging-boosting-and-stacking-28d006708731> (accessed Sep. 11, 2021).
- [27] L. Shen and C. Li, “Water body extraction from Landsat ETM+ imagery using adaboost algorithm,” in *2010 18th International Conference on Geoinformatics*, Jun. 2010, pp. 1–4. doi: 10.1109/GEOINFORMATICS.2010.5567762.
- [28] Y. Wu, H. Chen, X. Zhao, and Y. Zhai, “A vision-based recognition method for transformer based on AdaBoost and multi-template matching,” in *2015 IEEE International Conference on Cyber Technology in Automation, Control, and Intelligent Systems (CYBER)*, Jun. 2015, pp. 1429–1432. doi: 10.1109/CYBER.2015.7288153.
- [29] P. Dou, Y. Chen, and H. Yue, “Remote-sensing imagery classification using multiple classification algorithm-based AdaBoost,” *Int. J. Remote Sens.*, vol. 39, no. 3, pp. 619–639, Feb. 2018, doi: 10.1080/01431161.2017.1390276.
- [30] “Boosting Algorithm | Boosting Algorithms in Machine Learning,” *Analytics Vidhya*, Nov. 09, 2015. <https://www.analyticsvidhya.com/blog/2015/11/quick-introduction-boosting-algorithms-machine-learning/> (accessed Sep. 11, 2021).
- [31] “6.1: Molecular Descriptors,” *Chemistry LibreTexts*, Oct. 26, 2019. [https://chem.libretexts.org/Courses/Intercollegiate_Courses/Cheminformatics_OLCC_\(2019\)/6%3A_Molecular_Similarity/6.1%3A_Molecular_Descriptors](https://chem.libretexts.org/Courses/Intercollegiate_Courses/Cheminformatics_OLCC_(2019)/6%3A_Molecular_Similarity/6.1%3A_Molecular_Descriptors) (accessed Nov. 27, 2020).
- [32] J. Brownlee, “How to Calculate Feature Importance With Python,” *Machine Learning Mastery*, Mar. 29, 2020. <https://machinelearningmastery.com/calculate-feature-importance-with-python/> (accessed Aug. 16, 2021).
- [33] “Variance,” *DeepAI*, May 17, 2019. <https://deepai.org/machine-learning-glossary-and-terms/variance> (accessed Aug. 29, 2021).
- [34] A. Hayes, “Using the Variance Equation,” *Investopedia*. <https://www.investopedia.com/terms/v/variance.asp> (accessed Aug. 29, 2021).
- [35] “Feature Selection Techniques in Machine Learning,” *Analytics Vidhya*, Oct. 10, 2020. <https://www.analyticsvidhya.com/blog/2020/10/feature-selection-techniques-in-machine-learning/> (accessed Aug. 29, 2021).
- [36] “sklearn.ensemble.RandomForestClassifier — scikit-learn 0.24.2 documentation.” <https://scikit-learn.org/stable/modules/generated/sklearn.ensemble.RandomForestClassifier.html> (accessed Aug. 16, 2021).
- [37] “sklearn.ensemble.AdaBoostClassifier — scikit-learn 0.24.2 documentation.” <https://scikit-learn.org/stable/modules/generated/sklearn.ensemble.AdaBoostClassifier.html> (accessed Aug. 16, 2021).
- [38] J. Brownlee, “Understand the Impact of Learning Rate on Neural Network Performance,” *Machine Learning Mastery*, Jan. 24, 2019. <https://machinelearningmastery.com/understand-the-dynamics-of-learning-rate-on-deep-learning-neural-networks/> (accessed Aug. 16, 2021).
- [39] S. Raschka, “Model Evaluation, Model Selection, and Algorithm Selection in Machine Learning,” *ArXiv181112808 Cs Stat*, Nov. 2020, Accessed: Nov. 18, 2020. [Online]. Available: <http://arxiv.org/abs/1811.12808>
- [40] M. Yunus, “#3 Machine Learning Evaluation,” *Medium*, Jan. 12, 2020. <https://medium.com/@yunusmuhammad007/3-machine-learning-evaluation-239426e3319e> (accessed Nov. 18, 2020).
- [41] P. Panja, “Performance Evaluation Measures of Classification model,” *Analytics Vidhya*, Dec. 16, 2020. <https://www.analyticsvidhya.com/blog/2020/12/decluttering-the-performance-measures-of-classification-models/> (accessed Aug. 16, 2021).
- [42] “F1 Score,” *ritchieng.github.io*. <http://www.ritchieng.com/machinelearning-f1-score/> (accessed Aug. 16, 2021).