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Heart Disease Prediction using ML Techniques

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Abstract: Artery disease is considered as one of the notable principles of life end nowadays. Heart patients are growing rapidly because of deficient health awareness and bad consumption lifestyles. Therefore, it's important to have a system that can effectively acknowledge the frequency of heart issues in 1000s of selected instantly ML depicted to be fruitful in reinforcement in resolve and prognosis from the vast quantities of data generated by the medical professional. ML disease prediction is an approach that predicts diseases based on information supplied by users. It detects the heart related issues of the tolerant or the user post on the details or the symptoms enter into the system and gives results based on that information. This HDP Using ML is wholly run with the assist of ML algorithms and PPL using the Cleveland dataset that's available in the UCI repository. This study focuses on recognizing ML classifiers with the extreme fairness for symptomatic purposes. Various supervised ML algorithms were requested & differentiate for execution and reliability in heart disease problems. Every single quality was ranked on the foremost result to those offering high HDP. This research paper finds that operate on heart disease dataset gather from Kaggle six- algorithms like NB, RF, LG, KNN,SVM, DT algorithms can be used for heart disease prediction. Here, we find that a quite simple supervised algorithm can be utilize to build HDP with very high efficiency and extremely good future utility

Keywords: HDP Heart Disease Prediction, Data Mining, Cleveland dataset, UCI repository, Naive Bayes, SVM, Machine Learning, RF, Big Data, Logistic Regression, K-NN, Decision Tree

REFERENCES & CITATION

- [1]. Shah, D., Patel, S. & Bharti, S.K. Heart Disease Prediction using Machine Learning Techniques. SN COMPUT. SCI. 1, 345 (2020). https://doi.org/10.1007/s42979-020-00365-y
- [2]. Rairikar, V. Kulkarni, V. Sabale, H. Kale and A. Lamgunde, "Heart disease prediction using data mining techniques," 2017 International Conference on Intelligent Computing and Control (I2C2), Coimbatore, India, 2017, pp. 1-8, doi: 10.1109/I2C2.2017.8321771.
- [3]. V. Ramalingam, V., Dandapath, A., & Karthik Raja, M. (2018). Heart disease prediction using machine learning techniques: a survey. International Journal of Engineering & Technology, 7(2.8), 684.
- [4]. S. Xu, Z. Zhang, D. Wang, J. Hu, X. Duan and T. Zhu, "Cardiovascular Risk Prediction Method Based on CFS Subset Evaluation and Random Forest Classification Framework," 2017 IEEE 2nd International Conference on Big Data Analysis, 2017.
- [5]. Perumal, R. Early Prediction of Coronary Heart Disease from Cleveland Dataset using Machine Learning Techniques. Int. J. Adv. Sci. Technol. 2020, 29, 4225–4234
- [6]. A. Sahaya Arthy, G. Murugeshwari A survey on heart disease prediction using data mining techniques(April 2018)
- [7]. Kumar, N.K.; Sindhu, G.; Prashanthi, D.; Sulthana, A. Analysis and Prediction of Cardio Vascular Disease using Machine Learning Classifiers. In Proceedings of the 2020 6th.
- [8]. Gupta, A.; Kumar, R.; Arora, H.S.; Raman, B. MIFH: A Machine Intelligence Framework for Heart Disease Diagnosis. IEEE Access 2019, 8, 14659–14674
- [9]. S. K. J. and G. S., "Prediction of Heart Disease Using Machine Learning Algorithms.," 2019 1st International Conference on Innovations in Information and Communication Technology (ICIICT), 2019, pp.1-5,doi: 10.1109/ICIICT1.2019.8741465.

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[10]. A. Singh and R. Kumar, "Heart Disease Prediction Using Machine Learning Algorithms," 2020 International Conference on Electrical and Electronics Engineering (ICE3), 2020, pp. 452-457, doi: 10.1109/ICE348803.2020.9122958.

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