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Effective Heart Disease Diagnosis Using Machine Learning Techniques

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Abstract: *Heart disorders, also known as Cardiovascular Diseases (CVDs), are one of the world's worst problems. They are invisible and strike without warning when the body's limits are reached. Every day, the health-care business generates a vast amount of data about patients and conditions. Researchers and workers, on the other hand, do not make proper use of this information. The healthcare sector today is rich in data but deficient in competence. There are a variety of data processing and machine learning approaches and tools available for extracting useful information from databases and using that information to make more accurate predictions and decisions. The main idea of this research paper is to summarize recent research on heart disease prediction with comparative results, as well as to draw analytical conclusions and reduce the amount of attributes utilized in heart disease diagnosis, which may result in fewer tests being required. that a patient must undergo. Our effort also aims to improve the proposed system's efficiency. Electrocardiograms are a non-invasive and low-cost approach to diagnose cardiac problems (ECG).*

Keywords: Cardiovascular disease, ECG, Data mining, Electrocardiogram, Support Vector Machines, K-Nearest Neighbor; Naïve Bayes, Decision Trees.

REFERENCES

[1]. ECG signal analysis and arrhythmia detection on IoT wearable medical devices," D. Azariadi, V. Tsoutsouras, S. Xydis and D. Soudris, 2016 5th International Conference on Modern Circuits and Systems Technologies, Thessaloniki, Greece.SSS

[2]. Automatic ECG Diagnosis Using Convolutional Neural Network" Roberta Avanzato and Francesco Beritelli. Department of Electrical, Electronic and Computer Engineering, University of Catania, Italy.Published: 8 June 2020.

[3]. ECG signal analysis and arrhythmia detection on IoT wearable medical devices," D. Azariadi, V. Tsoutsouras, S. Xydis and D. Soudris, 2016 5th International Conference on Modern Circuits and Systems Technologies, Thessaloniki, Greece.

[4]. Automatic ECG Diagnosis Using Convolutional Neural Network" Roberta Avanzato and Francesco Beritelli. Department of Electrical, Electronic and Computer Engineering, University of Catania, Italy.Published: 8 June 2020.

[5]. A Survey of Data Mining Techniques on Medical Data for Finding Locally Frequent Diseases" Mohammed Abdul Khaleel (Research Scholar Sambalpur University, India), Sateesh Kumar Pradham (P.G.Department of Computer Science ,Utkal University, India), G.N. Dash(P.G.Department of Physics,Sambalpur University, India)

[6]. S P Raghavendra, M.J.Adarsh, Shoieb Ahamed and J. Shree Hari, "Estimation of Human Age and Gender Based on LBP Features Using Two Level Decision by SVM" _ K. C. Santosh and B.Gawali (Eds.): RTIP2R 2020, CCIS 1380, pp. 82– 94, 2021. https://doi.org/10.1007/978-981-16-0507-9_8, Springer Nature Singapore.

[7]. Adarsh M J, Md. Irshad Hussian B," A Survey on Digitization of Historical Document with Image Enhancement Techniques" "- Jan. 18 | Volume XII | Issue I | Article Number: 14 | ISSN 2321-3469. In International Journal of Computer Engineering and Applications.

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[8]. M J Adarsh, Steven Lawrence Fernandes, S N Bharath Bhushan, Vinlal Vinod, "A Novel Representation for Classification of User Sentiments" Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications, Pages 379-386 Springer, Singapore, DOI: 10.1007/978-981-10-3156-4, FICTA-2016, Vol -2.

[9]. Adarsh. M.J., Praveen Kumar Katigar, "Neural Network Based Approach for Classification of Text Documents"- Apr 2014 | Volume number: 1 | Issue: 2 | Article Number: 9 | ISSN: 2348 –5477. Kaav International Journal of Science, Engineering & Technology.