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## Heart Disease Prediction using ML

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**Abstract:** As per the recent study by WHO, heart related diseases are increasing. 17.9 million people die every-year due to this. With growing population, it gets further difficult to diagnose and start treatment at early stage. But due to the recent advancement in technology, Machine Learning techniques have accelerated the health sector by multiple researches. Thus, the objective of this paper is to build a ML model for heart disease prediction based on the related parameters.

**Keywords:** K-Nearest Neighbour Algorithm (KNN), Logistic regression algorithm (LR), and Naive Bayes(NB), Linear support vector machine

## REFERENCES

- [1]. An\_Effective\_Heart\_Disease\_Detection\_and\_Severity\_Level\_Classification\_Model\_Using\_Machine\_Learnin g\_and\_Hyperparameter\_Optimization\_Methods.pdf
- [2]. A\_Stacking-Based\_Model\_for\_Non-Invasive\_Detection\_of\_Coronary\_Heart\_Disease.pdf
- [3]. https://www.academia.edu/52218642/Heart\_Disease\_Prediction\_Using\_Machine\_Learning\_Algorithms
- [4]. https://vemanait.edu.in/pdf/cse/18-19-Paper/Mrs.Jayashree-L%20K-Heart-Disease-Protection-System.pdf
- [5]. 10.1109@ICE348803.2020.9122958.pdf
- [6]. https://ieeexplore.ieee.org/abstract/document/9491140
- [7]. https://ieeexplore.ieee.org/abstract/document/9831786
- [8]. https://ieeexplore.ieee.org/document/9751602
- [9]. https://ieeexplore.ieee.org/abstract/document/9358597

## BIOGRAPHY

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