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Cardiovascular Disease Prediction Using Machine Learning Models

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Abstract: *Cardiovascular diseases are among the most essential reasons for death. Prediction of cardiovascular disease is a vital problem in the field of clinical data analysis. Machine learning and Artificial Intelligence are more hopeful in helping decide and predict from the huge data generated by healthcare. We have observed that various features have been utilized in recent advancements of the machine learning model. Here, we suggested machine learning methods for predicting cardiovascular disease based on features. The Cardiovascular system also includes a network of blood vessels, i.e., veins, arteries, and capillaries. These vessels supply blood throughout the body. Malfunctions in normal blood flow from the heart induce various forms of heart diseases which are generally referred to as cardiovascular diseases (CVD). Heart disease is the principal cause of death globally. 17.5 million total deaths worldwide due to heart attacks and strokes, as per a World Health Organization survey. Over 75% of cardiovascular disease deaths take place predominantly in low- and middle-income nations. Also, 80% of the deaths caused due to CVDs are due to stroke and heart attack.*

Keywords: Machine Learning (ML), Cardiovascular Diseases Prediction (CVD), Artificial Intelligence(AI), Decision tree classifier.