ABSTRACT

Heart attack prediction using Octave

The diagnosis of heart disease is a significant and tedious task in medicine. The healthcare industry collects huge amounts of healthcare data which, unfortunately, are not "mined"; to discover hidden information for effective decision making. Discovery of hidden patterns and relationships often goes unexploited. Advanced machine learning techniques can help for remedy of this situation. Supervised classification system is adopted for heart attack prediction at the early stage using the patient’s medical record.

Using medical profiles such as age, sex, blood pressure, ear size and blood sugar we can predict the likelihood of patients getting a heart disease. It enables significant knowledge, e.g. patterns, relationships and between medical factors related to heart disease, to be established. this is solved using CNN(cellular neural network) and gradient descent algorithms in supervised classification concept. Octave tool is used for this implementation.

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