

PREDICTING HEART DISEASE

Using KNN-Classification Alg

THE GOAL ?

The goal of applying the KNN-Classification algorithm to the dataset is to predict whether an individual is at risk of heart disease based on various characteristics such as age, blood pressure, cholesterol levels, etc.

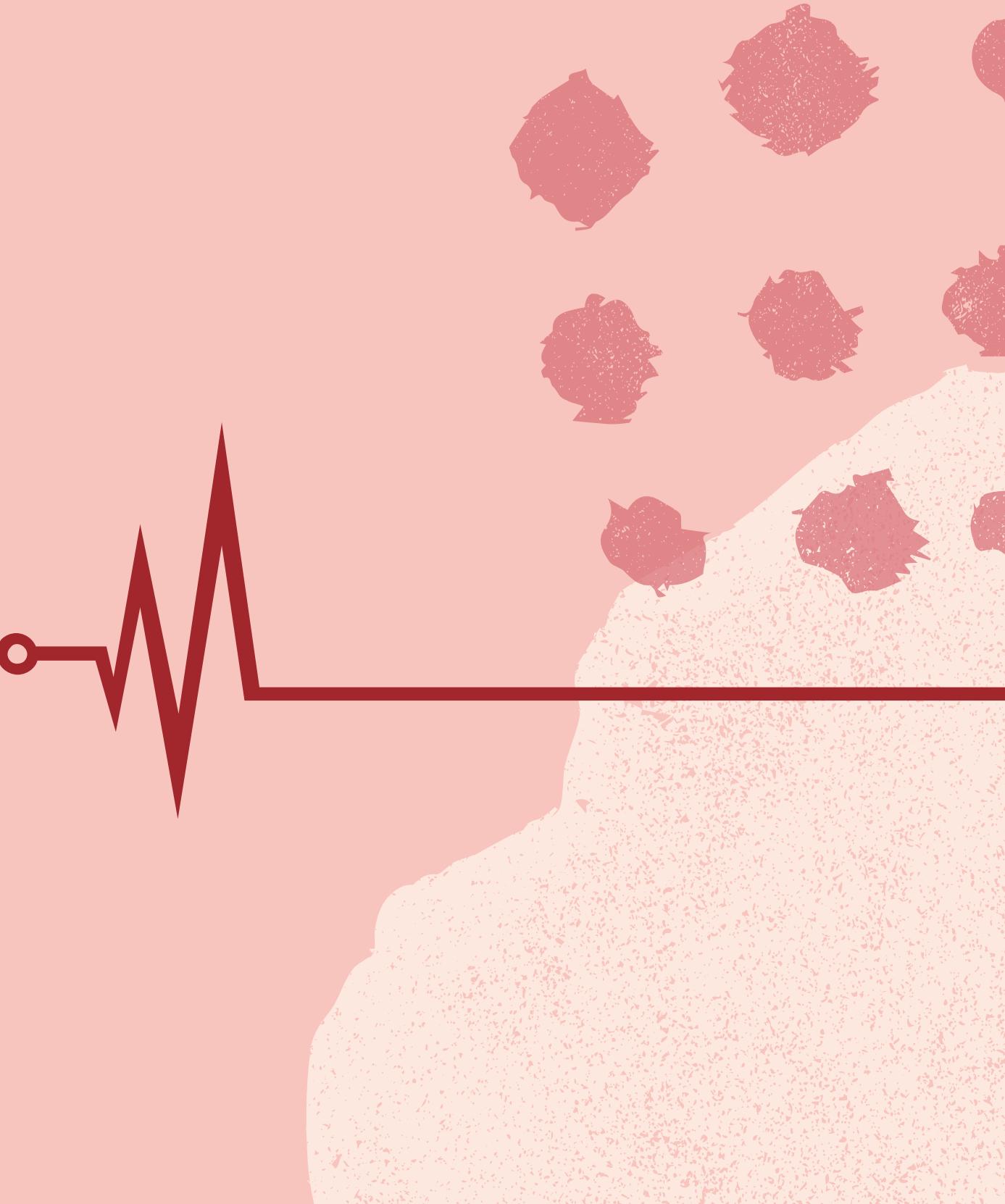


ADDITIONAL PROBLEMS CAN BE SOLVED :

1. Identify factors that contribute most to heart disease risk and use them for preventive measures
2. Predicting which patients are likely to respond well to heart disease treatments and this helps guide individual treatment plans



Consequently
The KNN model can therefore be
integrated into medical decision support
systems to provide physicians with risk
assessments and patient
recommendations that improve patient
care.



Features	Description
age	
sex	Female (1) , Male (0)
cp	Chest pain (0,1,2,3)
trestbps	Resting blood pressure
chol	Cholestorol in mg/dl
fbs	Fasting blood sugar > 120 mg/dl
restecg	Resting electrocardiographic results (values 0,1,2)
thalach	Maximum heart rate achieved
exang	Exercise induced angina

Features	Description
oldpeak	Oldpeak = ST depression induced by exercise relative to rest
slope	The slope of the peak exercise ST segment
ca	Number of major vessels (0-3) colored by flourosopy
thal	Thal: 0 = normal; 1 = Fixed defect; 2 = Reversable defect
target	1: have heart disease , 0 : not have heart disease

Number of records : 14

TO KNN-CLASSIFICATION MODEL

Code And GUL



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