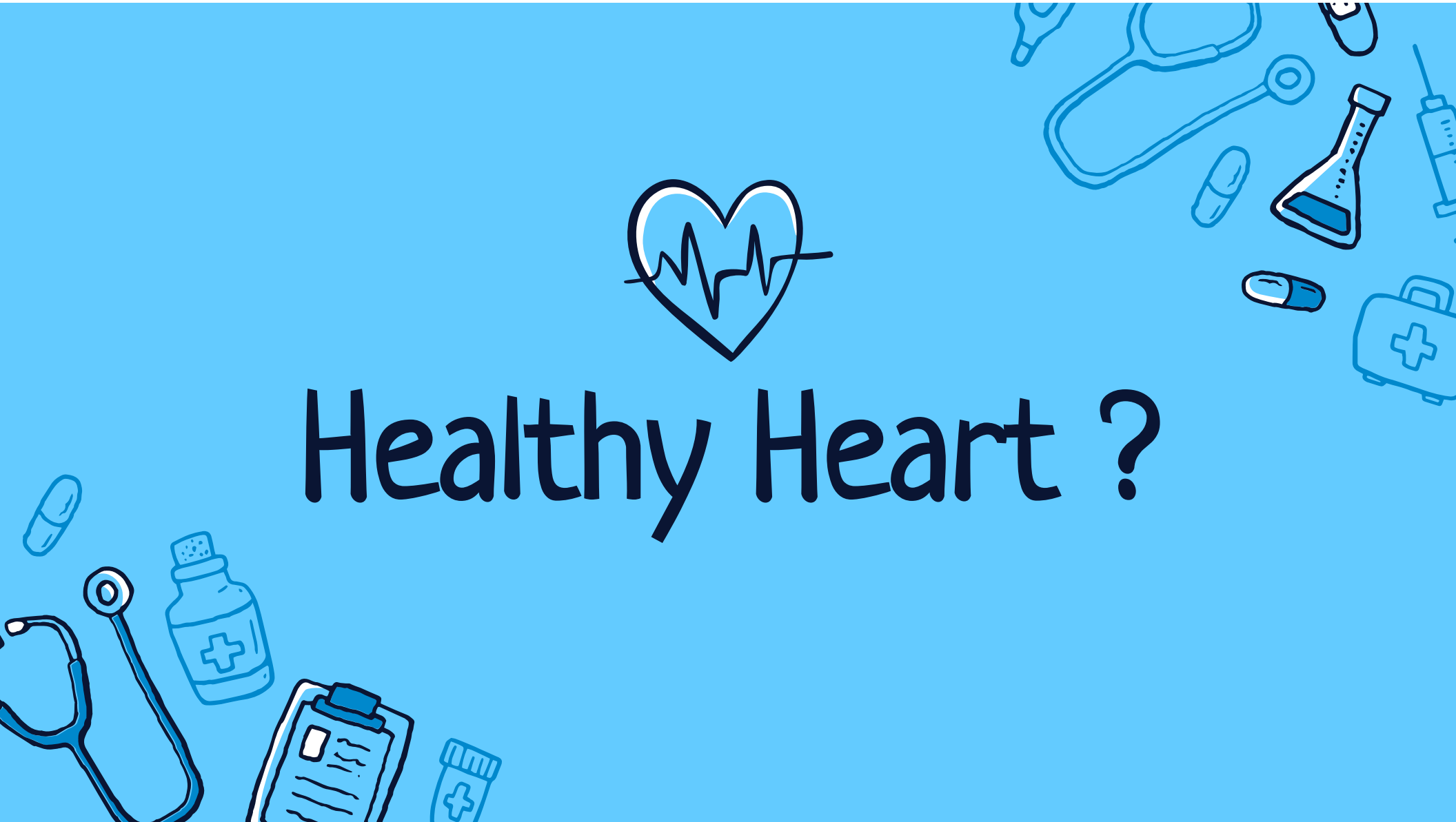




# Healthy Heart ?



Problem Statement: Predict whether a person has Healthy Heart or not.



Solution:

Description of the dataset :

We have 14 columns in our dataset, the last column is 'Target' which states

1=Defective Heart ,0 = Healthy Heart



## Columns:

01

age

Age of the patient

02

Sex

Gender of the patient

03

(cp)

chest pain type (4  
values)

04

(trestbps)

resting blood pressure

05

(chol)

serum cholesterol in  
mg/dl



## Columns:

06

(fbs)

fasting blood sugar >  
120 mg/dl

07

(restecg)

resting  
electrocardiographic  
results (values 0,1,2)

08

(thalach)

maximum heart rate  
achieved

09

(exang)

exercise-induced  
angina

10

(oldpeak)

ST depression induced  
by exercise relative to  
rest



## Columns:

11

(slope)

The slope of the peak  
exercise ST segment

12

(ca)

Number of major  
vessels (0-3) colored  
by fluoroscopy

13

(thal)

0 = normal; 1 = fixed  
defect; 2 = reversible  
defect

14

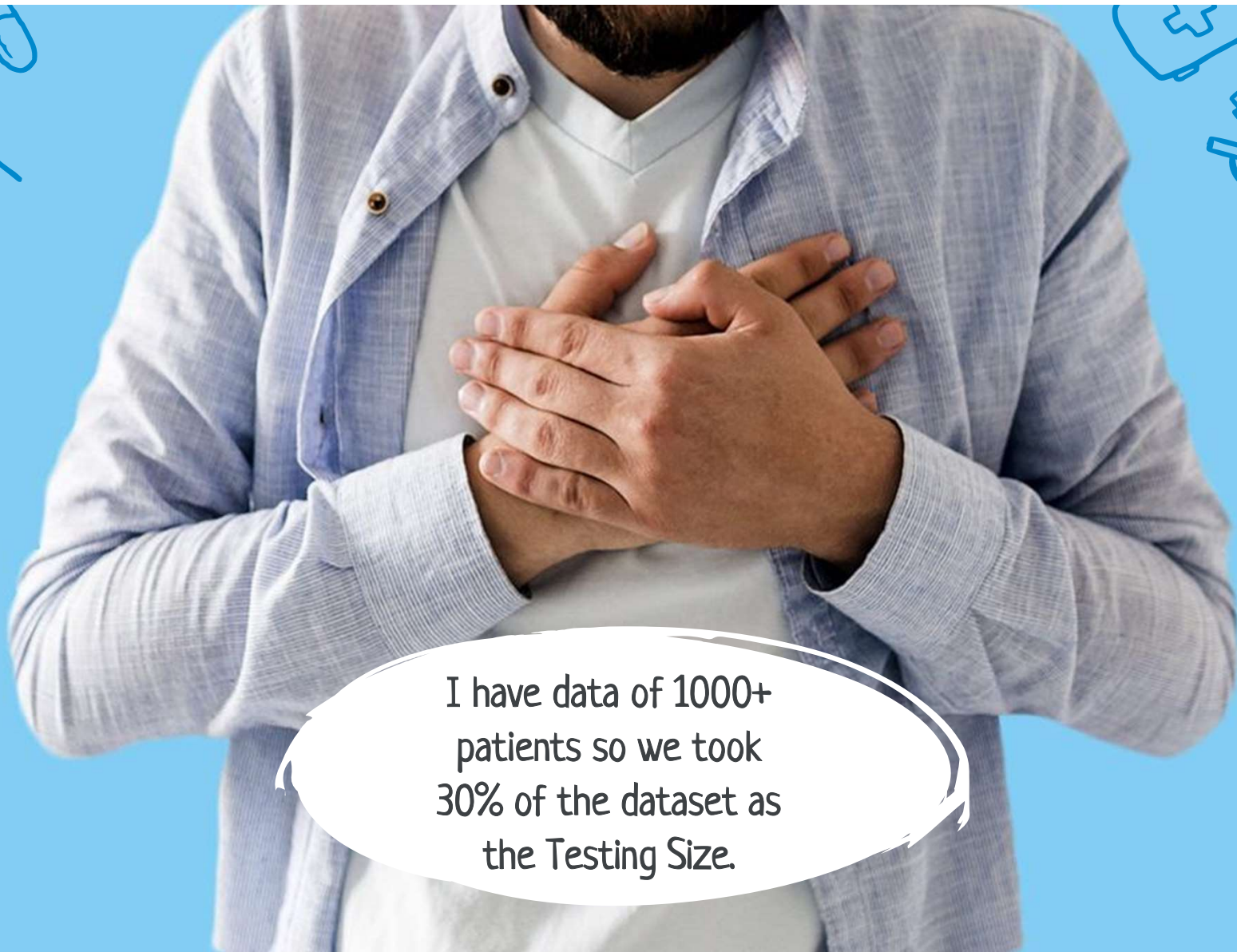
(target)

1=Defective Heart, 0 =  
Healthy Heart


# Linear Regression Model

I am using the Linear Regression model because our model is a binary classification model and the best-suited model to predict would be Linear Regression Model only.





I have data of 1000+ patients so we took 30% of the dataset as the Testing Size.


A collection of blue line-art medical icons in the top-left corner, including a syringe, a flask with blue liquid, a stethoscope, a pill, and a first aid kit with a cross.

# 85%+

**Accuracy of Training Data**

A collection of blue line-art medical icons in the bottom-right corner, including a pill bottle with a cross, a stethoscope, a clipboard with a checklist, and a pill.



A collection of blue line-art medical icons in the top-left corner, including a syringe, a flask with blue liquid, a stethoscope, a pill, and a first aid kit with a cross.

# 84%+

**Accuracy of Validation Data**

A collection of blue line-art medical icons in the bottom-right corner, including a pill bottle with a cross, a stethoscope, a clipboard with a checklist, and a pill.