Heart Disease Data Set

Data Set Information

https://archive.ics.uci.edu/ml/datasets/heart+disease

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This data set dates from 1988 and consists of four databases: Cleveland, Hungary, Switzerland, and Long Beach V. It contains 76 attributes, including the predicted attribute, but all published experiments refer to using a subset of **14** of them. The "target" field refers to the **presence of heart disease** in the patient. It is integer-valued **0 = no disease** and **1 = disease**.

Attribute Information

1. **#3 (age)**
   age: age in years
2. **#4 (sex)**
   sex: sex (1 = male; 0 = female)
3. **#9 (cp)**
   cp: chest pain type
   – Value 1: typical angina
   – Value 2: atypical angina
   – Value 3: non-anginal pain
   – Value 4: asymptomatic
4. **#10 (trestbps)**
   trestbps: resting blood pressure (in mm Hg on admission to the hospital)
5. **#12 (chol)**
   chol: serum cholestoral in mg/dl
6. **#16 (fbs)**
   fbs: fasting blood sugar > 120 mg/dl (1 = true; 0 = false)
7. **#19 (restecg)**
   restecg: resting electrocardiographic results
   – Value 0: normal
   – Value 1: having ST-T wave abnormality (T wave inversions and/or ST elevation or depression of > 0.05 mV)
   – Value 2: showing probable or definite left ventricular hypertrophy by Estes' criteria
8. **#32 (thalach)**
   thalach: maximum heart rate achieved in bmp
9. **#38 (exang)**
   exang: exercise induced angina (1 = yes; 0 = no)
10. **#40 (oldpeak)**
    oldpeak: ST depression induced by exercise relative to rest (1 = upsloping; 2 = flat; 3 = downsloping)
11. **#41 (slope)**
    slope: the slope of the peak exercise ST segment
    – Value 1: upsloping

- Value 2: flat
- Value 3: downsloping

12. **#44 (ca)**
    ca: number of major vessels (0-3) colored by flourosopy
13. **#51 (thal)**
    thal: thalassemia (1 = normal; 2 = fixed defect; 3 = reversable defect)
14. **#58 (target)** (the predicted attribute)
    target: diagnosis of heart disease (angiographic disease status)
    - Value 0: $< 50\%$ diameter narrowing (no disease)
    - Value 1: $> 50\%$ diameter narrowing (disease)

Source

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