IEEE Dataset

Heart Disease Dataset Attribute Description

S.No.	Attribute	Code given	Unit	Data type
1	age	Age	in years	Numeric
2	sex	Sex	1, 0	Binary
3	chest pain type	chest pain type	1,2,3,4	Nominal
4	resting blood pressure	resting bp s	in mm Hg	Numeric
5	serum cholesterol	cholesterol	in mg/dl	Numeric
6	fasting blood sugar	fasting blood sugar	1,0 > 120 mg/dl	Binary
7	resting electrocardiogram results	resting ecg	0,1,2	Nominal
8	maximum heart rate achieved	max heart rate	71–202	Numeric
9	exercise induced angina	exercise angina	0,1	Binary
10	oldpeak =ST	oldpeak	depression	Numeric
11	the slope of the peak exercise ST segment	ST slope	0,1,2	Nominal
12	class	target	0,1	Binary

Description of Nominal Attributes

Attribute	Description
Sex	1 = male, 0= female;
Chest Pain Type	-- Value 1: typical angina -- Value 2: atypical angina -- Value 3: non-anginal pain -- Value 4: asymptomatic
Fasting Blood sugar	(fasting blood sugar > 120 mg/dl) (1 = true; 0 = false)
Resting electrocardiogram 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
Exercise induced angina	1 = yes; 0 = no
the slope of the peak exercise ST segment	-- Value 1: upsloping -- Value 2: flat -- Value 3: downsloping
class	1 = heart disease, 0 = Normal

UCI Dataset

- age: age in years
- sex: sex (1 = male; 0 = female)
- cp: chest pain type
    -- Value 1: typical angina
    -- Value 2: atypical angina
    -- Value 3: non-anginal pain
    -- Value 4: asymptomatic
- fbs: (fasting blood sugar > 120 mg/dl) (1 = true; 0 = false)
- 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
- exang: exercise induced angina (1 = yes; 0 = no)
- oldpeak = ST depression induced by exercise relative to rest
- slope: the slope of the peak exercise ST segment
    -- Value 1: upsloping
    -- Value 2: flat
    -- Value 3: downsloping
- num: diagnosis of heart disease (angiographic disease status)
    -- Value 0: < 50% diameter narrowing
    -- Value 1: > 50% diameter narrowing

Added columns
Age groups
0 = '<40', 1 = '40-49', 2 = '50-59', 3 = '60-69', 4 = '>=70'

resting bp s group
0 = '<110', 1 = '110-119', 2 = '120-129', 3 = '130-139', 4 = '140-159', 5 = '>=160'

cholesterol_group
0 ='<150', 1 ='150-199', 2 = '200-249', 3 = '250-299', 4 = '300-349', 5 = '>=350'

max heart rate_group
0 = '<100', 1 = '100-119', 2 = '120-139', 3 = '140-159', 4 = '160-179', 5 = '>=180'

oldpeak group
0 = '<0.5', 1 = '0.5-1', 2 = '1-1.5', 3 = '1.5-2', 4 = '2-2.5', 5 = '2.5-3', 6 = '3-3.5', 7 = '>=3.5'