Results

/usr/local/bin/python3.13 /Users/sahithipuppala/Desktop/Heart disease/Heart disease prediction project.py

Age 0

Gender 0

Cholesterol 0

Blood Pressure 0

Heart Rate 0

Smoking 0

Alcohol Intake 340

Exercise Hours 0

Family History 0

Diabetes 0

Obesity 0

Stress Level 0

Blood Sugar 0

Exercise Induced Angina 0

Chest Pain Type 0

Heart Disease 0

dtype: int64

Age Cholesterol ... Blood Sugar Heart Disease

count 1000.000000 1000.000000 ... 1000.000000 1000.000000

mean 52.293000 249.939000 ... 134.941000 0.392000

std 15.727126 57.914673 ... 36.699624 0.488441

min 25.000000 150.000000 ... 70.000000 0.000000

25% 39.000000 200.000000 ... 104.000000 0.000000

50% 52.000000 248.000000 ... 135.000000 0.000000

75% 66.000000 299.000000 ... 167.000000 1.000000

max 79.000000 349.000000 ... 199.000000 1.000000

[8 rows x 8 columns]

Dataset contains 1000 rows and 16 columns

A graph of heart disease

AI-generated content may be incorrect.

Age int64

Gender object

Cholesterol int64

Blood Pressure int64

Heart Rate int64

Smoking object

Alcohol Intake object

Exercise Hours int64

Family History object

Diabetes object

Obesity object

Stress Level int64

Blood Sugar int64

Exercise Induced Angina object

Chest Pain Type object

Heart Disease int64

dtype: object

Random Forest Accuracy: 1.0

precision recall f1-score support

0 1.00 1.00 1.00 118

1 1.00 1.00 1.00 82

accuracy 1.00 200

macro avg 1.00 1.00 1.00 200

weighted avg 1.00 1.00 1.00 200

SVM Accuracy: 1.0

precision recall f1-score support

0 1.00 1.00 1.00 118

1 1.00 1.00 1.00 82

accuracy 1.00 200

macro avg 1.00 1.00 1.00 200

weighted avg 1.00 1.00 1.00 200

A graph with a bar graph

AI-generated content may be incorrect.

Best Parameters: {'max\_depth': None, 'min\_samples\_split': 2, 'n\_estimators': 50}

Random Forest Accuracy: 1.0

SVM Accuracy: 1.0

19

18

[ 7 0 1 2 3 6 5 4 9 12 10 15 8 13 17 18 11 16 14]

Length of feature\_importances: 19

Length of features: 18

Max index in sorted\_indices: 18

Sorted Indices: [ 7 0 1 2 3 6 5 4 9 12 10 15 8 13 17 18 11 16]

Process finished with exit code 0