```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings as fn
fn.filterwarnings("ignore")
```

```
df=pd.read_csv("values.csv")
```

```
df
```

	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_vessels	fast
0	0z64un	1	normal	128	2	0	
1	ryoo3j	2	normal	110	3	0	
2	yt1s1x	1	normal	125	4	3	
3	l2xjde	1	reversible_defect	152	4	0	
4	oyt4ek	3	reversible_defect	178	1	0	
...	...	...	...	...	...	...	
175	5qfar3	2	reversible_defect	125	4	2	
176	2s2b1f	2	normal	180	4	0	
177	nsd00i	2	reversible_defect	125	3	0	
178	0xw93k	1	normal	124	3	2	
179	2nx10r	1	normal	160	3	1	

180 rows × 14 columns

```
df.head(10)
```

	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_vessels	fastin
0	0z64un	1	normal	128	2	0	
1	ryoo3j	2	normal	110	3	0	
2	yt1s1x	1	normal	125	4	3	
3	l2xjde	1	reversible_defect	152	4	0	
4	oyt4ek	3	reversible_defect	178	1	0	
5	ldukkw	1	normal	130	3	0	
6	2gbyh9	2	reversible_defect	150	4	2	
7	daa9kp	2	fixed_defect	150	4	1	
8	3nwy2n	3	reversible_defect	170	4	0	
9	1r508r	2	normal	120	3	0	

```
df.tail(10)
```

	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_vessels	fast
170	qhz9ye	1	reversible_defect	150	4	0	
171	u25507	1	normal	112	4	1	
172	j9tw19	2	reversible_defect	118	4	0	
173	5o32oi	1	reversible_defect	140	4	0	
174	o63ri2	1	normal	140	4	0	
175	5qfar3	2	reversible_defect	125	4	2	
176	2s2b1f	2	normal	180	4	0	
177	nsd00i	2	reversible_defect	125	3	0	
178	0xw93k	1	normal	124	3	2	
179	2nx10r	1	normal	160	3	1	

```
import sweetviz as sv
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 180 entries, 0 to 179
Data columns (total 14 columns):
 #   Column                                Non-Null Count  Dtype  
---  ------                                --------------  -----  
 0   patient_id                            180 non-null    object 
 1   slope_of_peak_exercise_st_segment     180 non-null    int64  
 2   thal                                  180 non-null    object 
 3   resting_blood_pressure                180 non-null    int64  
 4   chest_pain_type                       180 non-null    int64  
 5   num_major_vessels                     180 non-null    int64  
 6   fasting_blood_sugar_gt_120_mg_per_dl  180 non-null    int64  
 7   resting_ekg_results                   180 non-null    int64  
 8   serum_cholesterol_mg_per_dl           180 non-null    int64  
 9   oldpeak_eq_st_depression              180 non-null    float64
 10  sex                                   180 non-null    int64  
 11  age                                   180 non-null    int64  
 12  max_heart_rate_achieved               180 non-null    int64  
 13  exercise_induced_angina               180 non-null    int64  
dtypes: float64(1), int64(11), object(2)
memory usage: 19.8+ KB
```

```
df.describe()
```

	slope_of_peak_exercise_st_segment	resting_blood_pressure	chest_pain_type	num_major_vessels	fasting_blood_sugar_gt_120_mg_
count	180.000000	180.000000	180.000000	180.000000	180.
mean	1.550000	131.311111	3.155556	0.694444	0.
std	0.618838	17.010443	0.938454	0.969347	0.
min	1.000000	94.000000	1.000000	0.000000	0.
25%	1.000000	120.000000	3.000000	0.000000	0.
50%	1.000000	130.000000	3.000000	0.000000	0.
75%	2.000000	140.000000	4.000000	1.000000	0.
max	3.000000	180.000000	4.000000	3.000000	1.

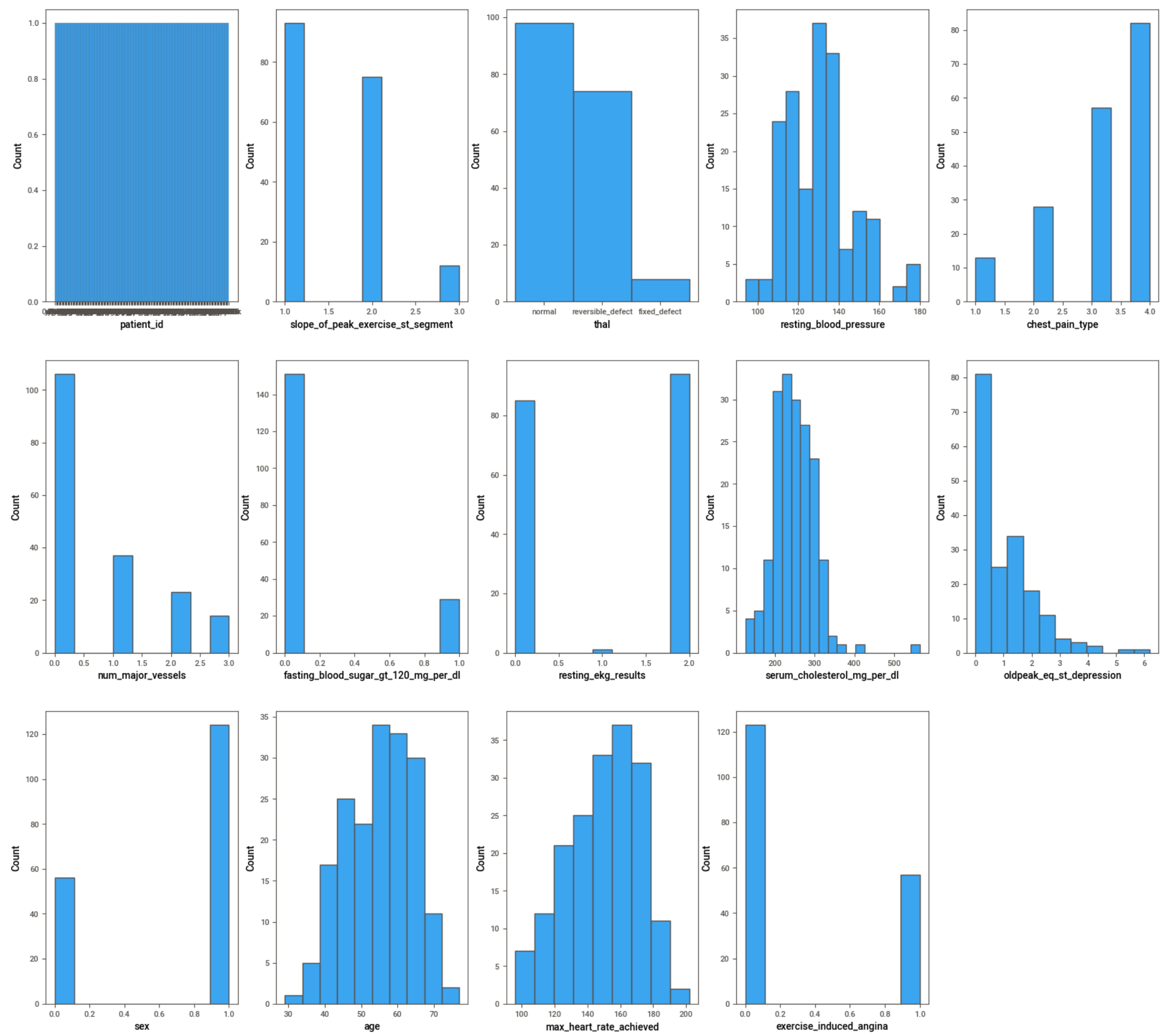
```
df.num_major_vessels.value_counts()
```

```
0    106
1     37
2     23
3     14
Name: num_major_vessels, dtype: int64
```

```
report=sv.analyze(df)
report.show_html()
```

```
                                             |          | [  0%]   00:00 -> (? left)
Report SWEETVIZ_REPORT.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report IS saved in
```

```
plt.figure(figsize=(20,18))
pltno=1
for i in df:
    plt.subplot(3,5,pltno)
    sns.histplot(x=i,data=df)
    pltno+=1
```




```
# insights
# people with st segment 3 is very low compare to the other two
# thallium stress test was normal for more people and people with thallium stress test fixed_defect was very low
# resting blood pressure was in the range of 135-140 for more people
# most of the patient have chest pain type four
# almost half of the patient has num_major_vessels colored by flourosopy of 0
# people with fasting blood sugar lesser than 120 is high
# very few peoples resting electrocardiographic results was normal
# more people has serum cholestoral in the range of 198-270, serum cholestoral has outlayers
# measure of abnormality in electrocardiograms was at 0 this proves that most of the peoples were normal, has outlayers
# many of the peoples in this dataset was male
# people in the age group of 53-68 was high
# maximum heart beat per minute was in the range of 142-179 for many
# more people does not have exercise_induced_angina
# people without heart disease is more compare to the people with heart disease
```

```
df1=pd.read_csv("labels.csv")
```

```
df1
```

	patient_id	heart_disease_present
0	0z64un	0
1	ryoo3j	0
2	yt1s1x	1
3	l2xjde	1
4	oyt4ek	0
...	...	...
175	5qfar3	1
176	2s2b1f	1
177	nsd00i	1
178	0xw93k	0
179	2nx10r	0

180 rows × 2 columns

```
df1.drop(["patient_id"],axis=1,inplace=True)
```

```
df=pd.concat([df1,df],axis=1)
```

```
df
```

	heart_disease_present	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type
0	0	0z64un	1	normal	128	2
1	0	ryoo3j	2	normal	110	3
2	1	yt1s1x	1	normal	125	4
3	1	l2xjde	1	reversible_defect	152	4
4	0	oyt4ek	3	reversible_defect	178	1
...	...	...	...	...	...	...
175	1	5qfar3	2	reversible_defect	125	4
176	1	2s2b1f	2	normal	180	4
177	1	nsd00i	2	reversible_defect	125	3
178	0	0xw93k	1	normal	124	3
179	0	2nx10r	1	normal	160	3

180 rows × 15 columns

```
report=sv.analyze(df)
report.show_html()
```

```
                                        |          | [  0%]   00:00 -> (? left)
Report SWEETVIZ_REPORT.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report IS saved in
```

```
df.isnull().sum()
```

```
heart_disease_present                   0
patient_id                              0
slope_of_peak_exercise_st_segment       0
thal                                    0
resting_blood_pressure                  0
chest_pain_type                         0
num_major_vessels                       0
fasting_blood_sugar_gt_120_mg_per_dl    0
resting_ekg_results                     0
serum_cholesterol_mg_per_dl             0
oldpeak_eq_st_depression                0
sex                                     0
age                                     0
max_heart_rate_achieved                 0
exercise_induced_angina                 0
dtype: int64
```

```
df.thal.value_counts()
```

```
normal               98
reversible_defect    74
fixed_defect          8
Name: thal, dtype: int64
```

```
df.thal=df.thal.map({"normal":0,"reversible_defect":1,"fixed_defect":2 })
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 180 entries, 0 to 179
Data columns (total 15 columns):
 #   Column                                Non-Null Count  Dtype  
---  ------                                --------------  -----  
 0   heart_disease_present                 180 non-null    int64  
 1   patient_id                            180 non-null    object 
 2   slope_of_peak_exercise_st_segment     180 non-null    int64  
 3   thal                                  180 non-null    int64  
 4   resting_blood_pressure                180 non-null    int64  
 5   chest_pain_type                       180 non-null    int64  
 6   num_major_vessels                     180 non-null    int64  
 7   fasting_blood_sugar_gt_120_mg_per_dl  180 non-null    int64  
 8   resting_ekg_results                   180 non-null    int64  
 9   serum_cholesterol_mg_per_dl           180 non-null    int64  
 10  oldpeak_eq_st_depression              180 non-null    float64
 11  sex                                   180 non-null    int64  
 12  age                                   180 non-null    int64  
 13  max_heart_rate_achieved               180 non-null    int64  
 14  exercise_induced_angina               180 non-null    int64  
dtypes: float64(1), int64(13), object(1)
memory usage: 21.2+ KB
```

```
df.serum_cholesterol_mg_per_dl.replace(417.0,df.serum_cholesterol_mg_per_dl.median(),inplace=True)
```

```
df.loc[df.serum_cholesterol_mg_per_dl>400]
```

	heart_disease_present	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_\
60	0	rv6siv	2	1	115	3	

```
df.loc[df.oldpeak_eq_st_depression>5,"oldpeak_eq_st_depression"]=df.oldpeak_eq_st_depression.median()
```

```
df
```

	heart_disease_present	patient_id	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_
0	0	0z64un	1	0	128	2	
1	0	ryoo3j	2	0	110	3	
2	1	yt1s1x	1	0	125	4	
3	1	l2xjde	1	1	152	4	
4	0	oyt4ek	3	1	178	1	
...	...	...	...	...	...	...	
175	1	5qfar3	2	1	125	4	
176	1	2s2b1f	2	0	180	4	
177	1	nsd00i	2	1	125	3	
178	0	0xw93k	1	0	124	3	
179	0	2nx10r	1	0	160	3	

180 rows × 15 columns

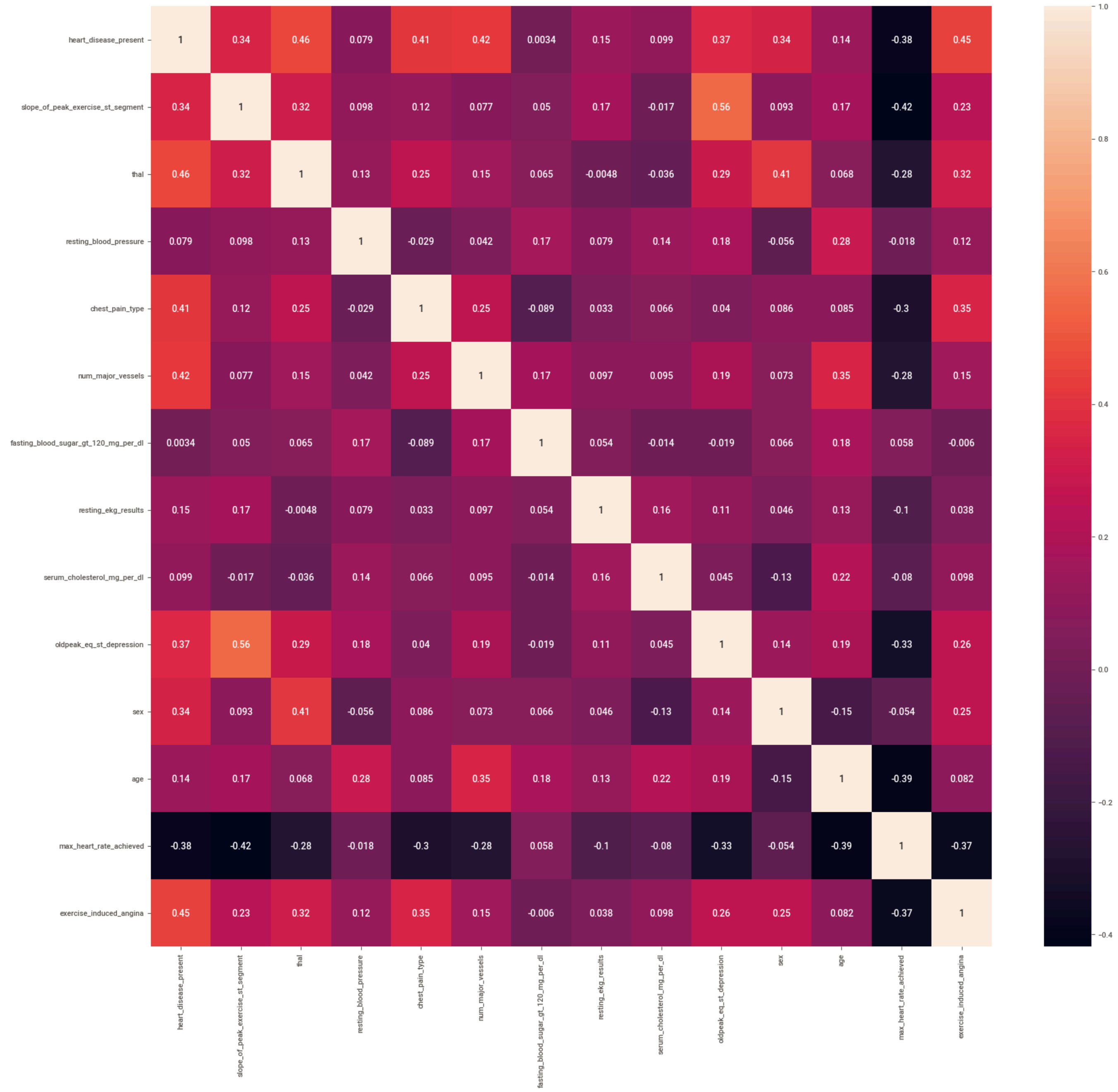
```
df.describe()
```

	heart_disease_present	slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_vess
count	180.000000	180.000000	180.000000	180.000000	180.000000	180.000
mean	0.444444	1.550000	0.500000	131.311111	3.155556	0.694
std	0.498290	0.618838	0.583765	17.010443	0.938454	0.969
min	0.000000	1.000000	0.000000	94.000000	1.000000	0.000
25%	0.000000	1.000000	0.000000	120.000000	3.000000	0.000
50%	0.000000	1.000000	0.000000	130.000000	3.000000	0.000
75%	1.000000	2.000000	1.000000	140.000000	4.000000	1.000
max	1.000000	3.000000	2.000000	180.000000	4.000000	3.000

```
corr=df.corr()
```

```
plt.figure(figsize=(20,18))
sns.heatmap(corr,annot=True)
```

```
<Axes: >
```




```
x=df.drop(["heart_disease_present","patient_id"],axis=1)

y=df["heart_disease_present"]

from sklearn.model_selection import train_test_split

xtrain,xtest,ytrain,ytest=train_test_split(x,y,test_size=0.2,random_state=20)

#logistic Regg

from sklearn.linear_model import LogisticRegression

lr=LogisticRegression()

lr.fit(xtrain,ytrain)
```

```
▾ LogisticRegression
LogisticRegression()
```

```
pred=lr.predict(xtest)
```

```
from sklearn.metrics import classification_report
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.71      0.83      0.77        18
           1       0.80      0.67      0.73        18

    accuracy                           0.75        36
   macro avg       0.76      0.75      0.75        36
weighted avg       0.76      0.75      0.75        36
```

```
from sklearn.model_selection import GridSearchCV
```

```
grid={"penalty":["l1", "l2", "elasticnet", None]
      ,"fit_intercept":[True,False],
      "solver":["lbfgs", "liblinear", "newton-cg", "newton-cholesky", "sag", "saga"],
     "max_iter":list(range(1,20)),"multi_class":["auto", "ovr", "multinomial"]}
```

```
cv=GridSearchCV(lr,param_grid=grid,refit=True,cv=3,verbose=2,scoring="f1")
```

```
cv.fit(x,y)
```

```
Fitting 3 folds for each of 2736 candidates, totalling 8208 fits
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=newton-cholesky; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=newton-cholesky; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=sag; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=saga; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l1, solver=saga; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=newton-cg; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=newton-cholesky; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=newton-cholesky; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=l2, solver=sag; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=lbfgs; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=liblinear; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cg; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cholesky; total time=   0.0s
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[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=liblinear; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=saga; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=saga; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=saga; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=ovr, penalty=l1, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=ovr, penalty=l1, solver=lbfgs; total time=   0.0s
[CV] END fit_intercept=True, max_iter=1, multi_class=ovr, penalty=l1, solver=lbfgs; total time=   0.0s
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```

▸ **GridSearchCV**

▸ **estimator: LogisticRegression**

▸ LogisticRegression

```
cv.best_params_
```

```
{'fit_intercept': True,
 'max_iter': 7,
 'multi_class': 'auto',
 'penalty': 'l2',
 'solver': 'newton-cg'}
```

```
lr=LogisticRegression(fit_intercept= True,
 max_iter= 7,
 multi_class='auto',
 penalty= 'l2',
 solver= 'newton-cg')
```

```
lr.fit(xtrain,ytrain)
pred=lr.predict(xtest)
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.76      0.84      0.80        19
           1       0.80      0.71      0.75        17

    accuracy                           0.78        36
   macro avg       0.78      0.77      0.78        36
weighted avg       0.78      0.78      0.78        36
```

```
# KNN
```

```
from sklearn.neighbors import KNeighborsClassifier
```

```
kn=KNeighborsClassifier()
```

```
kn.fit(xtrain,ytrain)
pred=kn.predict(xtest)
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.57      0.60      0.59        20
           1       0.47      0.44      0.45        16

    accuracy                           0.53        36
   macro avg       0.52      0.52      0.52        36
weighted avg       0.52      0.53      0.53        36
```

```
grid={"n_neighbors":[1,2,3,4,5,6,7,8,9],
     "weights":["uniform", "distance"],
     "algorithm":["auto", "ball_tree", "kd_tree", "brute"],
     "p":[0.1,0.2,2.1,5.3,0.9,6,9,1,7]}
```

```
cv=GridSearchCV(kn,param_grid=grid,cv=3,refit=True,verbose=2,scoring="f1")
```

```
cv.fit(x,y)
```

```
Fitting 3 folds for each of 648 candidates, totalling 1944 fits
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```

▸ **GridSearchCV**

▸ **estimator: KNeighborsClassifier**

▸ KNeighborsClassifier

```
cv.best_params_
```

```
{'algorithm': 'brute', 'n_neighbors': 3, 'p': 1, 'weights': 'uniform'}
```

```
kn=KNeighborsClassifier(algorithm= 'brute', n_neighbors= 3, p= 1, weights= 'uniform')
```

```
kn.fit(xtrain,ytrain)
pred=kn.predict(xtest)
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.76      0.76      0.76        21
           1       0.67      0.67      0.67        15

    accuracy                           0.72        36
   macro avg       0.71      0.71      0.71        36
weighted avg       0.72      0.72      0.72        36
```

```
#svm
```

```
from sklearn.svm import SVC
svc=SVC()
svc.fit(xtrain,ytrain)
pred=svc.predict(xtest)
print(classification_report(ytest,pred))
```

```
              precision    recall  f1-score   support

           0       0.65      0.95      0.77        21
           1       0.80      0.27      0.40        15

    accuracy                           0.67        36
   macro avg       0.72      0.61      0.58        36
weighted avg       0.71      0.67      0.62        36
```

```
from sklearn.tree import DecisionTreeClassifier
```

```
dc=DecisionTreeClassifier()
```

```
dc.fit(xtrain,ytrain)
pred=dc.predict(xtest)
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.67      0.67      0.67        21
           1       0.53      0.53      0.53        15

    accuracy                           0.61        36
   macro avg       0.60      0.60      0.60        36
weighted avg       0.61      0.61      0.61        36
```

```
grid={"criterion":["gini", "entropy", "log_loss"],
     "splitter":["best", "random"],
     "max_depth":[1,2,3,4,5],
     "min_samples_split":[1,2,0.3,0.2,6],
     "min_samples_leaf":[10,12,13,14,15],
     "max_features":["auto", "sqrt", "log2"],
     "random_state":[11,22,33,44,55]}
```

```
cv=GridSearchCV(dc,param_grid=grid,cv=3,refit=True,verbose=2,scoring="f1")
```

```
cv.fit(x,y)
```

```
Fitting 3 folds for each of 11250 candidates, totalling 33750 fits
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```

▸ **GridSearchCV**

▸ **estimator: DecisionTreeClassifier**

▸ DecisionTreeClassifier

```
cv.best_params_
```

```
{'criterion': 'gini',
 'max_depth': 4,
 'max_features': 'auto',
 'min_samples_leaf': 10,
 'min_samples_split': 1,
 'random_state': 11,
 'splitter': 'best'}
```

```
dc=DecisionTreeClassifier(criterion= 'gini',
 max_depth= 4,
 max_features= 'auto',
 min_samples_leaf= 10,
 min_samples_split= 1,
 random_state= 11,
 splitter= 'best')
dc.fit(xtrain,ytrain)
pred=dc.predict(xtest)
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.52      0.65      0.58        17
           1       0.60      0.47      0.53        19

    accuracy                           0.56        36
   macro avg       0.56      0.56      0.55        36
weighted avg       0.56      0.56      0.55        36
```

```
from sklearn.ensemble import RandomForestClassifier
```

```
rc=RandomForestClassifier()
```

```
rc.fit(xtrain,ytrain)
pred=rc.predict(xtest)
```

```
print(classification_report(pred,ytest))
```

```
              precision    recall  f1-score   support

           0       0.90      0.83      0.86        23
           1       0.73      0.85      0.79        13

    accuracy                           0.83        36
   macro avg       0.82      0.84      0.82        36
weighted avg       0.84      0.83      0.84        36
```

```
grid={"n_estimators":[10,20,30], "criterion":['gini',"entropy"],
      "max_depth":(1,2,3,4,5), "min_samples_split":[2,3,4,5],"min_samples_leaf":[2,3,4,8], "max_features":['sqrt',"log2"], "bootstrap":
```

```
cv=GridSearchCV(rc,param_grid=grid,cv=2,verbose=3,refit=True,scoring="f1")
```

```
cv.fit(x,y)
```

```
Fitting 2 folds for each of 1920 candidates, totalling 3840 fits
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=1
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=1
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=2
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=2
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=3
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=2, n_estimators=3
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=1
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=1
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=2
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=2
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=3
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=3, n_estimators=3
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[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=4, n_estimators=2
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=4, n_estimators=2
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=4, n_estimators=3
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=4, n_estimators=3
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[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=5, n_estimators=1
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[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=5, n_estimators=3
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=2, min_samples_split=5, n_estimators=3
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=3, min_samples_split=2, n_estimators=1
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=3, min_samples_split=2, n_estimators=1
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=3, min_samples_split=2, n_estimators=2
[CV 2/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=3, min_samples_split=2, n_estimators=2
[CV 1/2] END bootstrap=True, criterion=gini, max_depth=1, max_features=sqrt, min_samples_leaf=3, min_samples_split=2, n_estimators=3
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