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

_id slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	chest_pain_type	num_major_vessels	fast
64un 1	normal	128	2	0	
oo3j 2	normal	110	3	0	
Is1x 1	normal	125	4	3	
xjde 1	reversible_defect	152	4	0	
t4ek 3	reversible_defect	178	1	0	
far3 2	reversible_defect	125	4	2	
2b1f 2	normal	180	4	0	
d00i 2	reversible_defect	125	3	0	
/93k 1	normal	124	3	2	
x10r 1	normal	160	3	1	
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	14un 1 1003j 2 1s1x 1 1xxjde 1 14ek 3 far3 2 2b1f 2 d00i 2 193k 1	1     normal       2     normal       2     normal       2     1       2     normal       2     1       2     reversible_defect       3     2       3     reversible_defect       2     reversible_defect       2     normal       4     2     normal       4     1     normal	1     normal     128       2     normal     110       1s1x     1     normal     125       xjde     1     reversible_defect     152       t4ek     3     reversible_defect     178             far3     2     reversible_defect     125       2b1f     2     normal     180       d00i     2     reversible_defect     125       r93k     1     normal     124	4un     1     normal     128     2       203j     2     normal     110     3       4s1x     1     normal     125     4       xjde     1     reversible_defect     152     4       t4ek     3     reversible_defect     178     1              far3     2     reversible_defect     125     4       2b1f     2     normal     180     4       d00i     2     reversible_defect     125     3       r93k     1     normal     124     3	1     normal     128     2     0       203j     2     normal     110     3     0       1s1x     1     normal     125     4     3       xjde     1     reversible_defect     152     4     0       t4ek     3     reversible_defect     178     1     0                far3     2     reversible_defect     125     4     2       2b1f     2     normal     180     4     0       d00i     2     reversible_defect     125     3     0       r93k     1     normal     124     3     2

180 rows × 14 columns

df.head(10)

<del>_</del>	pa	ntient_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):

Data	columns (cocal 14 columns).		
#	Column	Non-Null Count	Dtype
0	patient_id	180 non-null	object
1	<pre>slope_of_peak_exercise_st_segment</pre>	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	<pre>fasting_blood_sugar_gt_120_mg_per_dl</pre>	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()

<del>_</del>		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
```

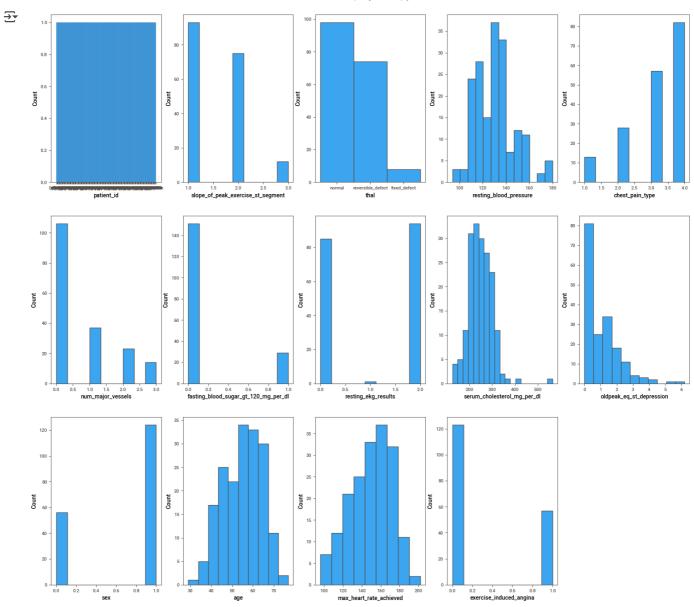
2 23 14

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
```

df1=pd.read\_csv("labels.csv")

df1

<sup>#</sup> people with st segment 3 is very low compare to the other two

<sup>#</sup> thallium stress test was normal for more people and people with thallium stress test fixed\_defect was very low

<sup>#</sup> resting blood pressure was in the range of 135-140 for more people

<sup>#</sup> most of the patient have chest pain type four

 $<sup>\</sup>mbox{\tt\#}$  almost half of the patient has num\_major\_vessels colored by flourosopy of 0

<sup>#</sup> people with fasting blood sugar lesser than 120 is high

<sup>#</sup> very few peoples resting electrocardiographic results was normal

<sup>#</sup> more people has serum cholestoral in the range of 198-270, serum cholestoral has outlayers

<sup>#</sup> measure of abnormality in electrocardiograms was at 0 this proves that most of the peoples were normal, has outlayers

<sup>#</sup> many of the peoples in this dataset was male

<sup>#</sup> people in the age group of 53-68 was high

<sup>#</sup> maximum heart beat per minute was in the range of 142-179 for many

<sup>#</sup> more people does not have exercise\_induced\_angina

<sup>#</sup> people without heart disease is more compare to the people with heart disease

**→** 

	patient_id	heart_disease_present
0	0z64un	0
1	ryoo3j	0
2	yt1s1x	1
3	l2xjde	1
4	oyt4ek	0
175	5 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
17	<b>5</b> 1	5qfar3	2	reversible_defect	125	4
17	<b>6</b> 1	2s2b1f	2	normal	180	4
17	<b>7</b> 1	nsd00i	2	reversible_defect	125	3
17	<b>8</b> 0	0xw93k	1	normal	124	3
17	9 0	2nx10r	1	normal	160	3

180 rows × 15 columns

report=sv.analyze(df)
report.show\_html()

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

df.thal.value\_counts()

```
→ normal
    reversible_defect
                        74
    fixed_defect
    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	<pre>fasting_blood_sugar_gt_120_mg_per_dl</pre>	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
4.4	63 (64/4) (1.64/40) (1.14/40)		

dtypes: float64(1), int64(13), object(1)
memory usage: 21.2+ KB

 ${\tt df.serum\_cholesterol\_mg\_per\_dl.replace(417.0,df.serum\_cholesterol\_mg\_per\_dl.median(),inplace=True)}$ 

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\_v 60 0 rv6siv 2 1 115 3

 $\tt df.loc[df.oldpeak\_eq\_st\_depression>5,"oldpeak\_eq\_st\_depression"] = \tt df.oldpeak\_eq\_st\_depression.median() = \tt df.oldpeak\_eq\_st\_depression.median() = \tt df.oldpeak\_eq\_st\_depression = \tt df.$ 

df

<del>_</del> →		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

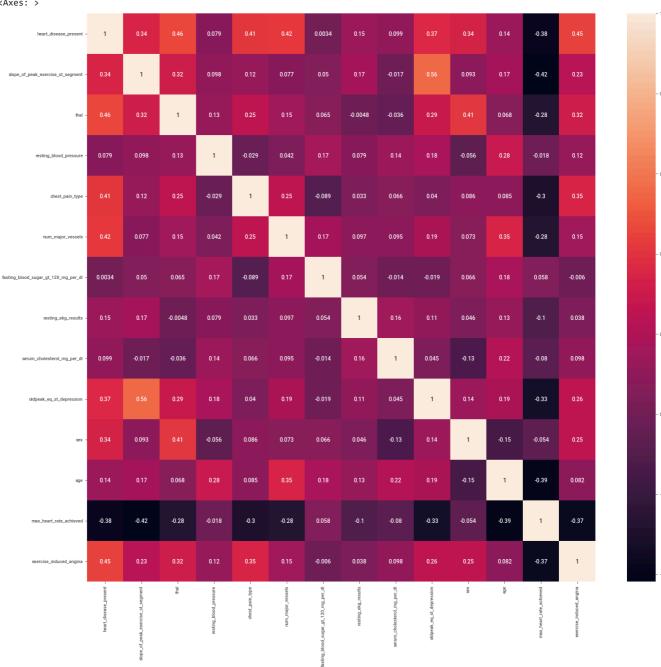
180 rows × 15 columns

df.describe()

₹	heart_disease_p		slope_of_peak_exercise_st_segment	thal	resting_blood_pressure	<pre>chest_pain_type</pre>	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)



```
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))

<del>_</del>	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=11, solver=lbfgs; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=lbfgs; total time=
     [CV] END fit intercept=True, max iter=1, multi class=auto, penalty=11, solver=lbfgs; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=liblinear; total time= 0.0s
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cg; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cg; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cholesky; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cholesky; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=newton-cholesky; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=sag; total time= 0.0s
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=11, solver=saga; total time=
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     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=lbfgs; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=lbfgs; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=liblinear; total time= 0.0s
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cg; total time= [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cholesky; total time=
                                                                                                                       0.05
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cholesky; total time=
                                                                                                                       9.95
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=newton-cholesky; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=sag; total time= 0.0s
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=sag; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=sag; total time= 0.0s
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=saga; total time= 0.0s
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=12, solver=saga; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=lbfgs; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=lbfgs; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=lbfgs; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=liblinear; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=liblinear; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cg; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cholesky; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=newton-cholesky; total time=
                                                                                                                                0.05
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=sag; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=sag; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=elasticnet, solver=saga; total time=
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=lbfgs; total time= 0.0s
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=liblinear; total time= 0.0s
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    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=liblinear; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cg; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=newton-cholesky; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time= [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=sag; total time=
     [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=saga; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=auto, penalty=None, solver=saga; total time=
    [CV] END fit_intercept=True, max_iter=1, multi_class=ovr, penalty=11, solver=lbfgs; total time= 0.0s
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     END fit intercent_Ealer may item_12
                                          multi class-multinomial
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           GridSearchCV
```

```
▶ estimator: LogisticRegression
    ▶ LogisticRegression
```

```
cv.best_params_
```

```
→ {'fit_intercept': True,
         'max_iter': 7,
'multi_class': 'auto',
'penalty': '12',
'solver': 'newton-cg'}
lr=LogisticRegression(fit_intercept= True,
 max_iter= 7,
```

multi\_class='auto', penalty= '12', solver= 'newton-cg')

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

print(classification\_report(pred,ytest))

<del>_</del>	precision	recall	f1-score	support
0 1	0.76 0.80	0.84 0.71	0.80 0.75	19 17
accuracy macro avg weighted avg	0.78 0.78	0.77 0.78	0.78 0.78 0.78	36 36 36

# KNN

 $from \ sklearn.neighbors \ import \ KNeighbors Classifier$ 

kn=KNeighborsClassifier()

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

print(classification\_report(pred,ytest))

<del>_</del> _•	precision	recall	f1-score	support
0	0.57	0.60	0.59	20
1	0.47	0.44	0.45	16
accuracy macro avg weighted avg	0.52 0.52	0.52 0.53	0.53 0.52 0.53	36 36 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]}
```

 $\verb|cv=GridSearchCV| (kn,param\_grid=grid,cv=3,refit=True,verbose=2,scoring="f1")| \\$ 

cv.fit(x,y)

```
Fitting 3 folds for each of 648 candidates, totalling 1944 fits
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    [CV] END algorithm=auto, n_neighbors=1, p=0.2, weights=uniform; total time=
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αιβοιτειω-κα\_ειεε, υ\_πειβπουισ-ν, ρ-ι, ωειβπεσ-απιτιοιώ, εσεαι

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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))

<b>→</b>	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))

<del></del>	precision	recall	f1-score	support
(	0.67	0.67	0.67	21
:	0.53	0.53	0.53	15
accuracy	/		0.61	36
macro av	g 0.60	0.60	0.60	36
weighted av	0.61	0.61	0.61	36

```
"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]}

 $\verb|cv=GridSearchCV| (dc,param\_grid=grid,cv=3,refit=True,verbose=2,scoring="f1")| \\$ 

cv.fit(x,y)

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

```
[64] EMD CLICCLION-BINI, MAZ-ACPCH-I, MAZ-CACALCS-AACO, MIN-SAMPICS_ICAL-IZ, MIN-SAMPICS_SPIIC-I, LANGOM_SCACC-SS, SPIICCL-LANGO
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```

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[64] באש כרזיכריים-קוחו, אמא_שכףכריי, אמא_בכשכת כפייטר , אוורפשאים בכמיים בכמיים, אוורפשאים במוריים, אוורפשאים
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[01] באט כרזיכריזטר-קברב, אמא_שכףכריד, אמא_וכמכמרכז-זקרכ, אבר_זמאקדכז_בכמר-די, אבר_זמאקדכז_זקברכריט, דמרשטא_זמבכרדב, ספדיככרידומר
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[64] בחד כו בכנו בסוו-קבווב, והמקשכקטו-ב, המקוכמנטו כש-בסקב, הבוו שמהקבכש בנטו-בס, הבוו שמהקבכש שקבכש, ומוטסה שנכני בב, שקבונינו דסכני
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[64] במט כרבכב בטו-קבוד, וומג_מכףכו-ב, וומג_וכמכמוכט-בטקב, וובו_טמווףבכט_בכמו-בט, וובו_טמווףבכט_טףבנכ_ב, ומומטוו_טכמככ-בב, טףבבככו -טכטכ
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             END chitanion-dini may denth-2 may features-auto min camples leaf-10 min camples chlit-0 2 handom state-22
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[64] EMD CLICCLION-8111, MAZ-ACPCH-2, MAZ-CACALCS-AACO, MIN_SAMPICS_ICAL-IO, MIN_SAMPICS_SPIECTO.2, LANGOM_SCACCT22, SPIECCLI-LAN
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[64] END CLICCLIOH-BIHI, MAZ-ACPCH-E, MAZ-CACALCS-AACO, MIH-SAMPICS_ICAL-EE, MIH-SAMPICS_SPIIC-O, LAHAOM_SCACC-SS, SPIICCCL-DCSC,
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           END critarion-gini may danth-2 may features-auto min camples leaf-14 min camples chlit-1 mandom state-33
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[64] EMD CLIECTION-BINI, MAN_ACPONE, MAN_LCACALCESSON, MIN_SAMPICS_ICALES, MIN_SAMPICS_SPIECTOR, LANGOM_SCACCTSS, SPIECCLETAN
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[68] במו כו בנפן בטוו-קבווג, וומא_עפטנו-ב, וומא_וכמנעו פס-סקונ, ווגוו_סמווטבפס_בכמו-בס, ווגוו_סמווטבפס_סט, ומועטוו_סנמנפ-סס, סטבנכו - ומועט
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                                                                                                may donth-2 may footunes-auto min camples loaf-12
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[[08] END CLITCELION-81111, MAX_UCPCH-3, MAX_LCACUCS-AUCO, MIN_SAMPICS_ICAL-13, MIN_SAMPICS_SPITC-0.3, LANGUM_SCACC-33, SPITCCEL-UCS
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[68] במו כו בכפו בטוו-קבווג, והמג שפקנוו-ט, והמג וכפנטו פט-טקונ, והגון סמווקבפט בכפו דבפו -בב, והגון סמווקבפט סקבנים, ופועטוון סנונים וויים וויים וויים במונים וויים וויים במונים וויים במונים וויים במונים וויים במונים ב
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[68] במו כו בנפן בטוו-קבווב, והמק שפקנוו-ט, והמק וכמנטו פט-טקונ, והבון סמווקבפט בכנו בטוו-קבווב, ומועטוו טנמנפיט, אפג וכמנטו פט-טקונים וויים וויים במועט במועט וויים במועט במועט וויים במועט ו
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[CV] LND CLITCLIOH-SIHI, MAN_MERLH-3, MAN_LEACHES-34LC, MIH_38MPIE3_IEAL-I+, MIH_38MPIE3_3PIIC-0.2, LAHGOM_3CACE-II, 3PIICCEL-DE3
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```

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[בען באש כו בנפו בטוו-קבווב, ווומא_שפירוו-ט, ווומא_ופמנטו פס-סקו נ, ווובון סמוויים במורבט, וווובן סמוויים ווווב
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[כען בועט כו דנכו דטוו-פבווד, ווומא_עפטינו-ט, ווומא_וכמנעו פט-דטפב, ווודון ממוועט בבמו בט, ווודון מוועט במונים במונים ווויש במונים במ
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[ ביין בייט כו דנכו דטו-פדוד, וומא_שפירו-+, וומא_וכמנטו כז-מענט, וודוו_ממוווידבי_דכמו-דט, וודוו_ממוווידבי_ביט, וודוו_ממווידבי_ביט, וודוו_ממווידבי_ביט, וודוו_ממווידבי_ביט, וודוו_ממווידבי
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[ ביין בייט כו דנכו דטו-פדוד, וומא_שפינו-+, וומא_וכמנטו כז-מענט, וודוו_ממוווידבי_דכמו-די, וודוו_ממוווידבי_מענט,
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```

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```

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```

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[64] EMD CLITCHION-108_1000, MAZ-ACPEN-0, MAZ-ICACALCO-1082, MILI-0-MBPICO-1CAL-12, MILI-0-MBPICO-0-0-1CAL-0-0, LANGUM-0-CACC-11, OPITICE
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```

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project 1.ipynb - Colab

```
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))
```

<b>→</b>	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

```
Fitting 2 folds for each of 1920 candidates, totalling 3840 fits
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ביש סססכסכו מף- וו שכ, כו בככו בסורקבווב, ווומא_שכף כורב, וווומא_וכמכשו כס-בסקב, ווובון סשווף בכס_בכמר-ס, ווובו
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