```
1 import numpy as np
In [84]:
             import pandas as pd
             import seaborn as sns
            sns.set(rc={'figure.figsize':(6,4)})
           6 import matplotlib.pyplot as plt
             %matplotlib inline
           8
             from tadm import tadm
             import random
          11 import pickle
          12 import time
          13
          14 from sklearn.model selection import train test split
            from sklearn.preprocessing import LabelEncoder
          16
          17 from sklearn.preprocessing import MinMaxScaler
          18 from sklearn.preprocessing import StandardScaler
          19 from sklearn.preprocessing import MaxAbsScaler
          20 from sklearn.preprocessing import RobustScaler
          21 from sklearn.preprocessing import QuantileTransformer
          22 from sklearn.preprocessing import PowerTransformer
          23 from sklearn.preprocessing import Normalizer
          24
            from sklearn.linear model import LogisticRegression
          26 from sklearn.neighbors import KNeighborsClassifier
          27 from sklearn.naive bayes import GaussianNB
          28 from sklearn.tree import DecisionTreeClassifier
             from sklearn.ensemble import RandomForestClassifier
          30
          31 from sklearn.metrics import accuracy score
          32 from sklearn.metrics import log loss
          33 from sklearn.metrics import cohen kappa score
          34 | from sklearn.metrics import confusion_matrix
          35 from sklearn import metrics
          36
          37 # for ignore warnings
          38 import warnings
             warnings.filterwarnings("ignore")
          41 plot data list = []
```

```
In [85]:
           1 df = pd.read_csv('Dataset\df.csv')
           2 df.head()
Out[85]:
             itching skin_rash nodal_skin_eruptions continuous_sneezing shivering chills joint_pain stomach_pain acidity ulcers_on_tongue ... skin_peeling silver_like_dust
                                                                                                                            0 ...
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                                                                                                            0
                                                                                                                                           0
          5 rows × 135 columns
           1 df.shape
In [86]:
Out[86]: (4920, 135)
In [87]:
           1 # print(sorted(list(df.columns)))
In [88]:
           1 | df['high fever'] = np.random.randint(96, 106, df.shape[0])
           2 df['age'] = np.random.randint(10, 90, df.shape[0])
In [89]:
           1 # df.to_csv("Dataset\df2_modified.csv", index=False)
```

```
1 # creating instance of labelencoder
In [90]:
           2 le = LabelEncoder()
           3 # Assigning numerical values and storing in another column
           4 df['class prognosis'] = le.fit transform(df['prognosis'])
           5 df.head()
Out[90]:
             itching skin rash nodal skin eruptions continuous sneezing shivering chills joint pain stomach pain acidity ulcers on tongue ... silver like dusting small de
                                                                                                                          0 ...
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                          1
                                                               0
                                                                        0
                                                                             0
                                                                                       0
                                                                                                   0
                                                                                                                          0 ...
                                                                                                                                             0
          5 rows × 136 columns
In [91]:
           1 #print(sorted(list(df['class prognosis'].unique())))
In [92]:
           1 #df['class prognosis'].value counts()
In [93]:
           1 # Drop unwanted columns
           2 df = df.drop(['prognosis','sum'], axis=1)
In [94]:
           1 # Split data
           2 # X, Y = df.iloc[:,:-1], df.iloc[:,-1]
           3 X, Y = df.drop(['class_prognosis'], axis = 1), df['class_prognosis']
           4 X_train, X_test, y_train, y_test = train_test_split(X,Y, test_size = 0.3, random_state = 42, stratify = Y)
```

```
In [95]:
          1 # Model initialization
          2 | lr_Classifier = LogisticRegression()
          3 knn_Classifier = KNeighborsClassifier()
          4 gnb Classifier = GaussianNB()
          5 dt Classifier = DecisionTreeClassifier()
          6 rf Classifier = RandomForestClassifier()
          7 model list = [lr Classifier, knn Classifier, gnb Classifier, dt Classifier, rf Classifier]
          9 # Scaler initialization
          10 MinMax_scaler = MinMaxScaler()
          11 Standard scaler = StandardScaler()
          12 MaxAbs scaler = MaxAbsScaler()
          13 Robust scaler = RobustScaler()
          14 Quantile_scaler = QuantileTransformer()
          15 | Power scaler = PowerTransformer()
          16 Normalizer scaler = Normalizer()
          scaler_list = [MinMax_scaler, Standard_scaler, MaxAbs_scaler, Robust_scaler,
                            Quantile_scaler, Power_scaler, Normalizer_scaler]
          18
```

```
In [96]:
           1 | def run pipeline(X train, X test, y train, y test, scaler, classifier):
           2
                  # Model Information
           3
                  print(f"Modele name : {type(classifier). name }")
                  print(f"Scaler name : {type(scaler). name }")
           4
           5
           6
                  # process 1 : fit and transform X train data
           7
                  scaled X train = scaler.fit transform(X train)
           8
           9
                  # process 2 : train model
                  classifier.fit(scaled X train, y train)
          10
          11
          12
                  # process 3 : transform X test data
                  scaled X test = scaler.transform(X test)
          13
          14
          15
                  # process 4 : test model
          16
                  v pred = classifier.predict(scaled X test)
          17
                  # print(v pred, le.inverse transform(v pred))
          18
          19
                  # process 5 : model evalution
          20
                  print("Accuracy score:", round((accuracy score(y test, y pred))*100,2),'%')
                  print("Loss:", round((1-accuracy_score(y_test, y_pred))*100,2),'%')
          21
                  print("Cohen kappa score:", round((cohen kappa score(y test, y pred))*100,2),'%')
          22
                  print("Classification report:\n",metrics.classification report(y test, y pred))
          23
          24
                  print("confusion matrix:\n", confusion matrix(y test, y pred))
          25
                  # plot confusion matrix
                  fig, ax = plt.subplots()
          26
          27
                  fig.set size inches(12,8) # WH
          28
                  sns.heatmap(confusion matrix(y test, y pred),
          29
                              annot=True,
          30
                              linewidths = 2,
          31
                              linecolor = "blue",
          32
                              center=0)
          33
                  plt.show()
          34
          35
                  # process 6 : save model in pkl file
                  filename = 'Moduls\\'+str(type(classifier). name )+' Symtoms.pkl'
          36
          37
                  pickle.dump(classifier, open(filename, 'wb'))
          38
          39
                  # collect data for bar plot
                  global plot data list
          40
          41
                  plot data list.append([str(type(classifier). name ),
          42
                                         str(type(scaler). name ),
          43
                                         round((accuracy_score(y_test, y_pred))*100,2)])
          44
          45
                  # end
          46
                  print("==="*30)
```

Modele name : LogisticRegression

Scaler name : MinMaxScaler Accuracy\_score: 100.0 % Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

_report:			
precision	recall	f1-score	support
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	precision         recall           1.00         1.00	precision         recall         f1-score           1.00         1.00         1.00

38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [0360...000]

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[0 0 0 ... 0 36 0]

Modele name : LogisticRegression Scaler name : StandardScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %

33

1.00

1.00

1.00

36

Classification				
Classificacion_	precision	recall	f1-score	support
	precision	· ccaii	11 30010	заррог с
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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Modele name : LogisticRegression

Scaler name : MaxAbsScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : LogisticRegression

Scaler name : RobustScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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Modele name : LogisticRegression Scaler name : QuantileTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[000...3600]

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Modele name : LogisticRegression Scaler name : PowerTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : LogisticRegression

Scaler name : Normalizer
Accuracy\_score: 18.63 %

Loss: 81.37 %

Cohen\_kappa\_score: 16.6 %
Classification report:

lassificatior	_report:			
	precision	recall	f1-score	support
0	1.00	0.19	0.33	36
1	0.80	0.11	0.20	36
2	1.00	0.06	0.11	36
3	1.00	0.14	0.24	36
4	1.00	0.08	0.15	36
5	0.03	0.53	0.05	36
6	1.00	0.22	0.36	36
7	1.00	0.14	0.24	36
8	1.00	0.25	0.40	36
9	1.00	0.06	0.11	36
10	1.00	0.42	0.59	36
11	0.13	0.50	0.20	36
12	1.00	0.39	0.56	36
13	0.50	0.11	0.18	36
14	1.00	0.08	0.15	36
15	1.00	0.08	0.15	36
16	1.00	0.17	0.29	36
17	1.00	0.11	0.20	36
18	1.00	0.08	0.15	36
19	0.89	0.22	0.36	36
20	0.40	0.11	0.17	36
21	0.12	0.03	0.05	36
22	0.42	0.14	0.21	36
23	0.75	0.08	0.15	36
24	1.00	0.19	0.33	36
25	1.00	0.17	0.29	36
26	1.00	0.22	0.36	36
27	1.00	0.17	0.29	36
28	1.00	0.25	0.40	36
29	1.00	0.11	0.20	36
30	1.00	0.11	0.20	36
31	0.04	0.47	0.08	36
32	0.44	0.11	0.18	36
33	1.00	0.22	0.36	36

	34	0.70	0.19	0.30	36
	35	1.00	0.17	0.29	36
	36	1.00	0.19	0.33	36
	37	0.75	0.17	0.27	36
	38	1.00	0.03	0.05	36
	39	1.00	0.31	0.47	36
	40	1.00	0.25	0.40	36
accur	racy			0.19	1476
macro	avg	0.83	0.19	0.25	1476
weighted	avg	0.83	0.19	0.25	1476

[[7 0 0 ... 0 0 0] [0 4 0 ... 0 0 0]

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[ 0 0 0 ... 0 11 0]

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Modele name : KNeighborsClassifier

Scaler name : MinMaxScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : KNeighborsClassifier

Scaler name : StandardScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : KNeighborsClassifier

Scaler name : MaxAbsScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : KNeighborsClassifier

Scaler name : RobustScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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Modele name : KNeighborsClassifier Scaler name : QuantileTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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Modele name : KNeighborsClassifier Scaler name : PowerTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : KNeighborsClassifier

Scaler name : Normalizer
Accuracy\_score: 95.33 %

Loss: 4.67 %

Cohen\_kappa\_score: 95.21 %

Classification	_report:			
	precision	recall	f1-score	support
0	0.95	1.00	0.97	36
1	0.92	0.97	0.95	36
2	0.85	0.94	0.89	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	0.97	0.86	0.91	36
6	0.95	0.97	0.96	36
7	0.97	0.92	0.94	36
8	1.00	0.97	0.99	36
9	0.88	1.00	0.94	36
10	1.00	1.00	1.00	36
11	1.00	0.97	0.99	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	0.87	0.94	0.91	36
15	0.85	0.78	0.81	36
16	1.00	0.92	0.96	36
17	0.92	0.97	0.95	36
18	0.76	0.89	0.82	36
19	1.00	0.97	0.99	36
20	0.97	0.92	0.94	36
21	0.79	0.94	0.86	36
22	1.00	0.89	0.94	36
23	0.92	0.94	0.93	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	0.97	0.99	36
27	1.00	1.00	1.00	36
28	0.97	0.89	0.93	36
29	0.92	1.00	0.96	36
30	1.00	0.97	0.99	36
31	0.90	0.97	0.93	36
32	0.91	0.86	0.89	36
33	1.00	0.94	0.97	36

34	0.97	0.94	0.96	36
35	1.00	0.94	0.97	36
36	0.97	0.94	0.96	36
37	1.00	0.94	0.97	36
38	1.00	1.00	1.00	36
39	1.00	0.94	0.97	36
40	1.00	0.97	0.99	36
accuracy			0.95	1476
macro avg	0.96	0.95	0.95	1476
weighted avg	0.96	0.95	0.95	1476

[[36 0 0 ... 0 0 0]

[ 0 35 1 ... 0 0 0] [ 0 0 34 ... 0 0 0]

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[ 0 1 0 ... 0 34 0]

Modele name : GaussianNB Scaler name : MinMaxScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : GaussianNB Scaler name : StandardScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : GaussianNB Scaler name : MaxAbsScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[000...3600]

[0 0 0 ... 0 36 0]

Modele name : GaussianNB Scaler name : RobustScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : GaussianNB

Scaler name : QuantileTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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Modele name : GaussianNB

Scaler name : PowerTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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Modele name : GaussianNB Scaler name : Normalizer Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
CIUJJITTEUCIO	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : DecisionTreeClassifier

Scaler name : MinMaxScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

lassification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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Modele name : DecisionTreeClassifier

Scaler name : StandardScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00	36 36 36
1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00	1.00 1.00 1.00	36 36
1.00 1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00	36
1.00 1.00 1.00	1.00 1.00	1.00	
1.00 1.00	1.00		3.5
1.00			36
	4 00	1.00	36
1 00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
	1.00	1.00	36
	1.00	1.00	36
	1.00	1.00	36
	1.00	1.00	36
			36
			36
			36
			36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00	1.00       1.00       1.00         1.00       1.00

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : DecisionTreeClassifier

Scaler name : MaxAbsScaler
Accuracy\_score: 99.12 %

Loss: 0.88 %

Cohen\_kappa\_score: 99.1 %
Classification report:

nssification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	0.97	0.92	0.94	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	0.86	0.89	0.88	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	0.87	0.94	0.91	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	0.94	0.89	0.91	36
40	1.00	1.00	1.00	36
accuracy			0.99	1476
macro avg	0.99	0.99	0.99	1476
weighted avg	0.99	0.99	0.99	1476

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[ 0 0 36 ... 0 0 0]

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[000...0320]

Modele name : DecisionTreeClassifier

Scaler name : RobustScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

.assiticatior	i_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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[0 0 0 ... 0 36 0]

Modele name : DecisionTreeClassifier Scaler name : QuantileTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

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Modele name : DecisionTreeClassifier

Scaler name : PowerTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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Modele name : DecisionTreeClassifier

Scaler name : Normalizer
Accuracy\_score: 99.53 %

Loss: 0.47 %

Cohen\_kappa\_score: 99.51 %
Classification report:

ssification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	0.92	1.00	0.96	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	0.89	0.94	0.92	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	0.97	0.99	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	0.89	0.94	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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Modele name : RandomForestClassifier

Scaler name : MinMaxScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

	)		
precision	recall	f1-score	support
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00	1.00

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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Modele name : RandomForestClassifier

Scaler name : StandardScaler Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen kanna score: 100.0 %

core: 100.0 %	5		
_report:			
precision	recall	f1-score	support
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
1.00	1.00	1.00	36
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00	1.00

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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[0 0 36 ... 0 0 0]

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Modele name : RandomForestClassifier

Scaler name : MaxAbsScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

Cohen\_kappa\_score: 100.0 %
Classification report:

Classification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

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Modele name : RandomForestClassifier

Scaler name : RobustScaler
Accuracy\_score: 100.0 %

Loss: 0.0 %

lassification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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Modele name : RandomForestClassifier Scaler name : QuantileTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification				
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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Modele name : RandomForestClassifier

Scaler name : PowerTransformer

Accuracy\_score: 100.0 %

Loss: 0.0 %

Classification	report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

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Modele name : RandomForestClassifier

Scaler name : Normalizer
Accuracy\_score: 100.0 %

Loss: 0.0 %

lassification	_report:			
	precision	recall	f1-score	support
0	1.00	1.00	1.00	36
1	1.00	1.00	1.00	36
2	1.00	1.00	1.00	36
3	1.00	1.00	1.00	36
4	1.00	1.00	1.00	36
5	1.00	1.00	1.00	36
6	1.00	1.00	1.00	36
7	1.00	1.00	1.00	36
8	1.00	1.00	1.00	36
9	1.00	1.00	1.00	36
10	1.00	1.00	1.00	36
11	1.00	1.00	1.00	36
12	1.00	1.00	1.00	36
13	1.00	1.00	1.00	36
14	1.00	1.00	1.00	36
15	1.00	1.00	1.00	36
16	1.00	1.00	1.00	36
17	1.00	1.00	1.00	36
18	1.00	1.00	1.00	36
19	1.00	1.00	1.00	36
20	1.00	1.00	1.00	36
21	1.00	1.00	1.00	36
22	1.00	1.00	1.00	36
23	1.00	1.00	1.00	36
24	1.00	1.00	1.00	36
25	1.00	1.00	1.00	36
26	1.00	1.00	1.00	36
27	1.00	1.00	1.00	36
28	1.00	1.00	1.00	36
29	1.00	1.00	1.00	36
30	1.00	1.00	1.00	36
31	1.00	1.00	1.00	36
32	1.00	1.00	1.00	36
33	1.00	1.00	1.00	36

34	1.00	1.00	1.00	36
35	1.00	1.00	1.00	36
36	1.00	1.00	1.00	36
37	1.00	1.00	1.00	36
38	1.00	1.00	1.00	36
39	1.00	1.00	1.00	36
40	1.00	1.00	1.00	36
accuracy			1.00	1476
macro avg	1.00	1.00	1.00	1476
weighted avg	1.00	1.00	1.00	1476

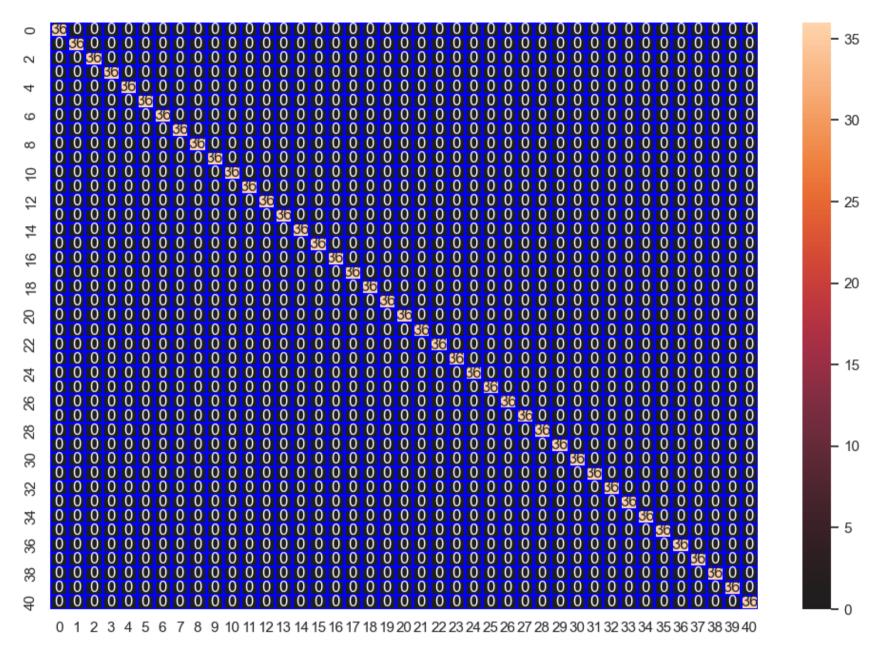
[[36 0 0 ... 0 0 0] [ 0 36 0 ... 0 0 0]

[0 0 36 ... 0 0 0]

. . .

[000...3600]

[0 0 0 ... 0 36 0]



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