Model name : Support vector machine (SVM)

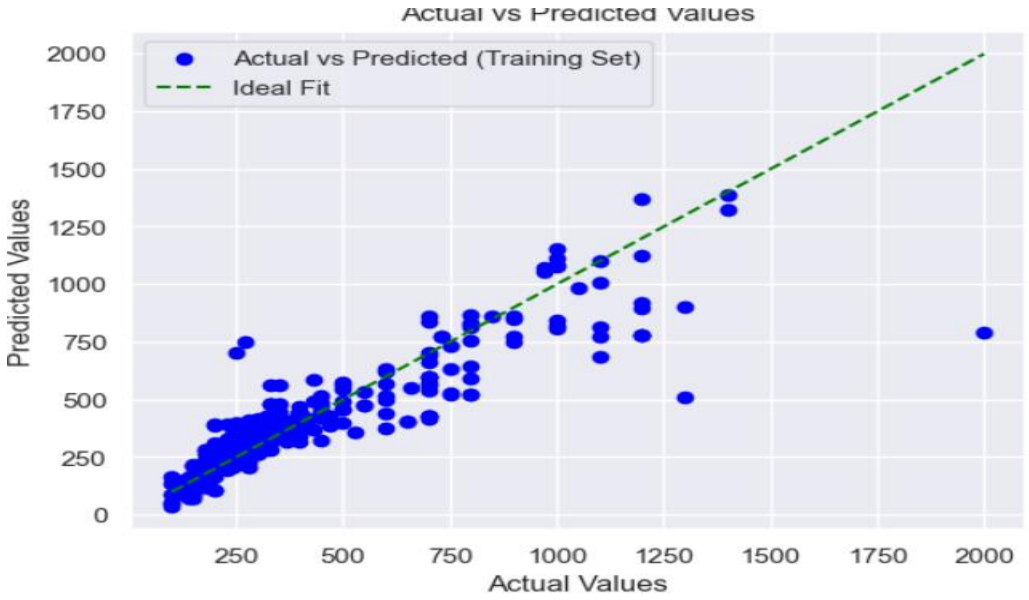
General information on dataset

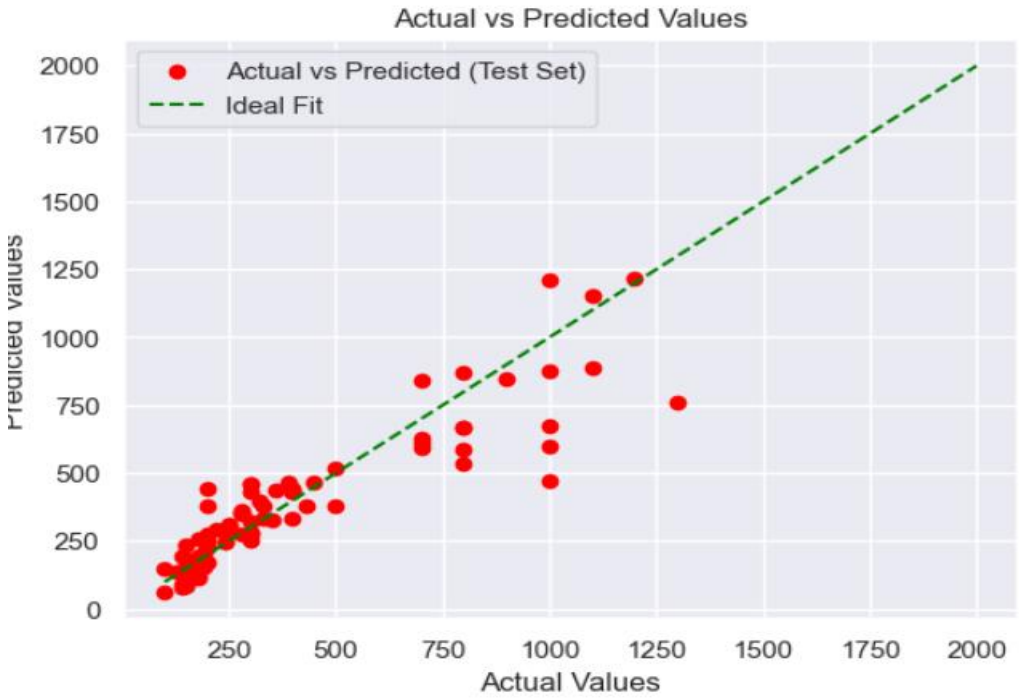
Dataset name	Mobile price
Total number of samples	408
Number of samples used in training	325
Number of samples used in testing	82

Implementation details

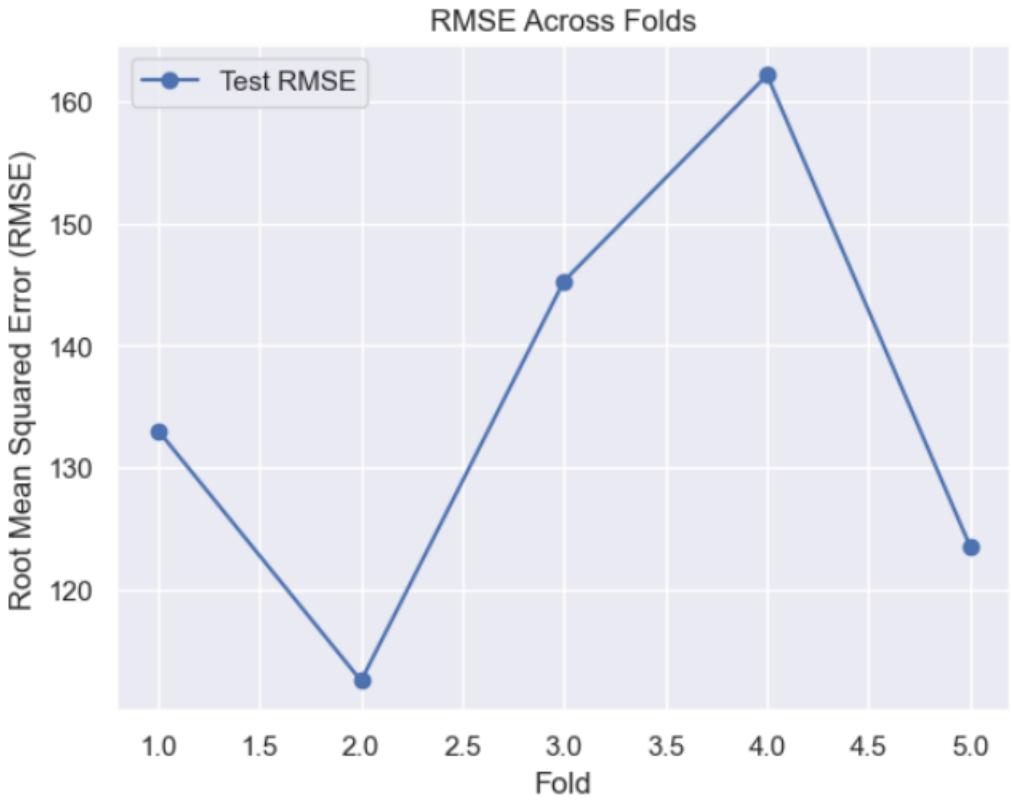
Feature extracted	Non
Dimensionality	11
Number of k-fold	5
Ratio of training	80%
Ratio of validation	80%

Result details






Testing Scores Across Folds
Testing Score
R-squared
0.86
0.84
0.82
0.80
0.78
0.76
0.74
0.72
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Fold


RMSE Across Folds
Test RMSE
Root Mean Squared Error (RMSE)
160
150
140
130
120
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Fold

Model name : Neural network(NN)

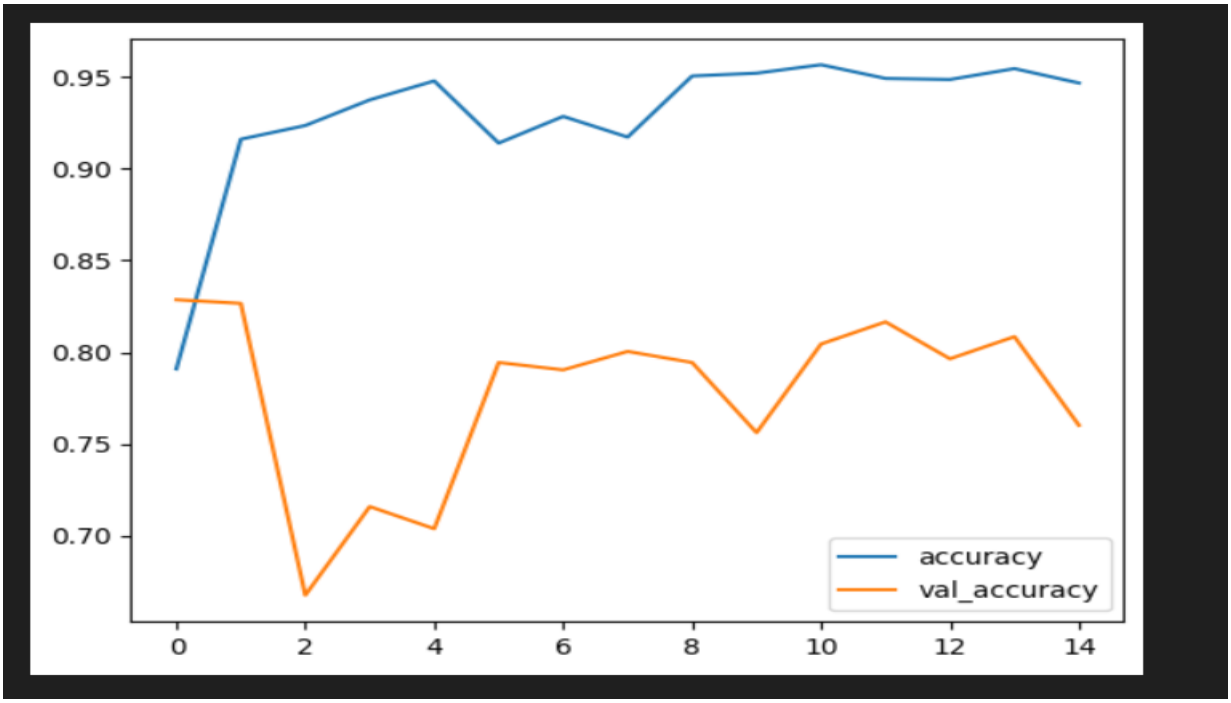
General information on dataset

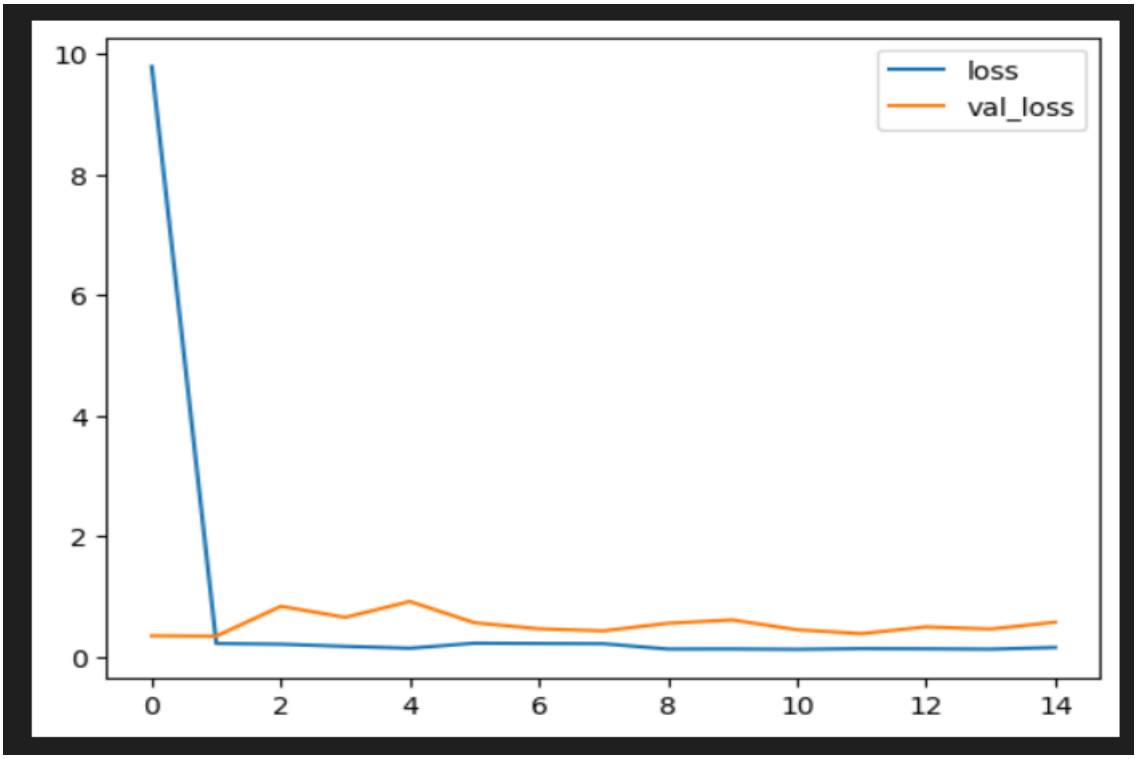
Dataset name	Chest-xray-pneumonia
Number of classes	2
Total number of samples	5856
Size of image	150 * 150
Number of samples used in training	5216
Number of samples used in testing	500
Number of samples used in validation	124

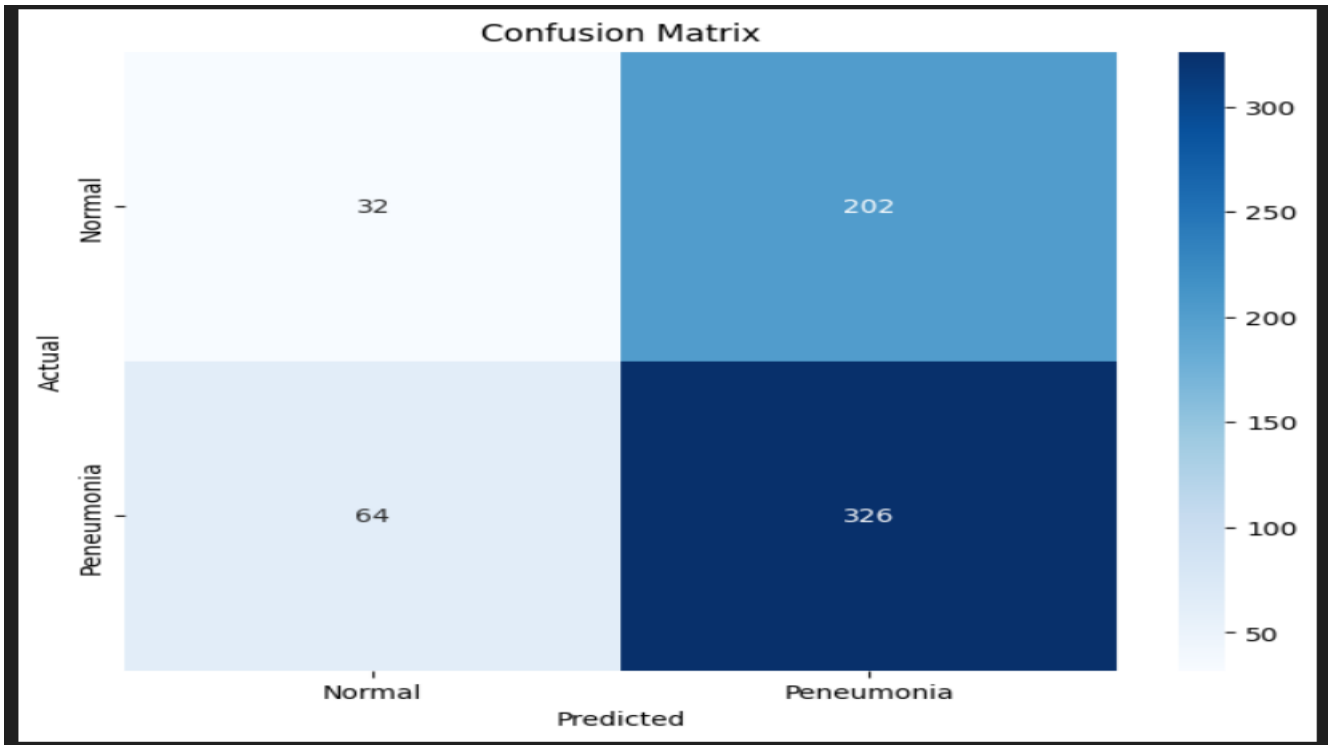
Implementation details

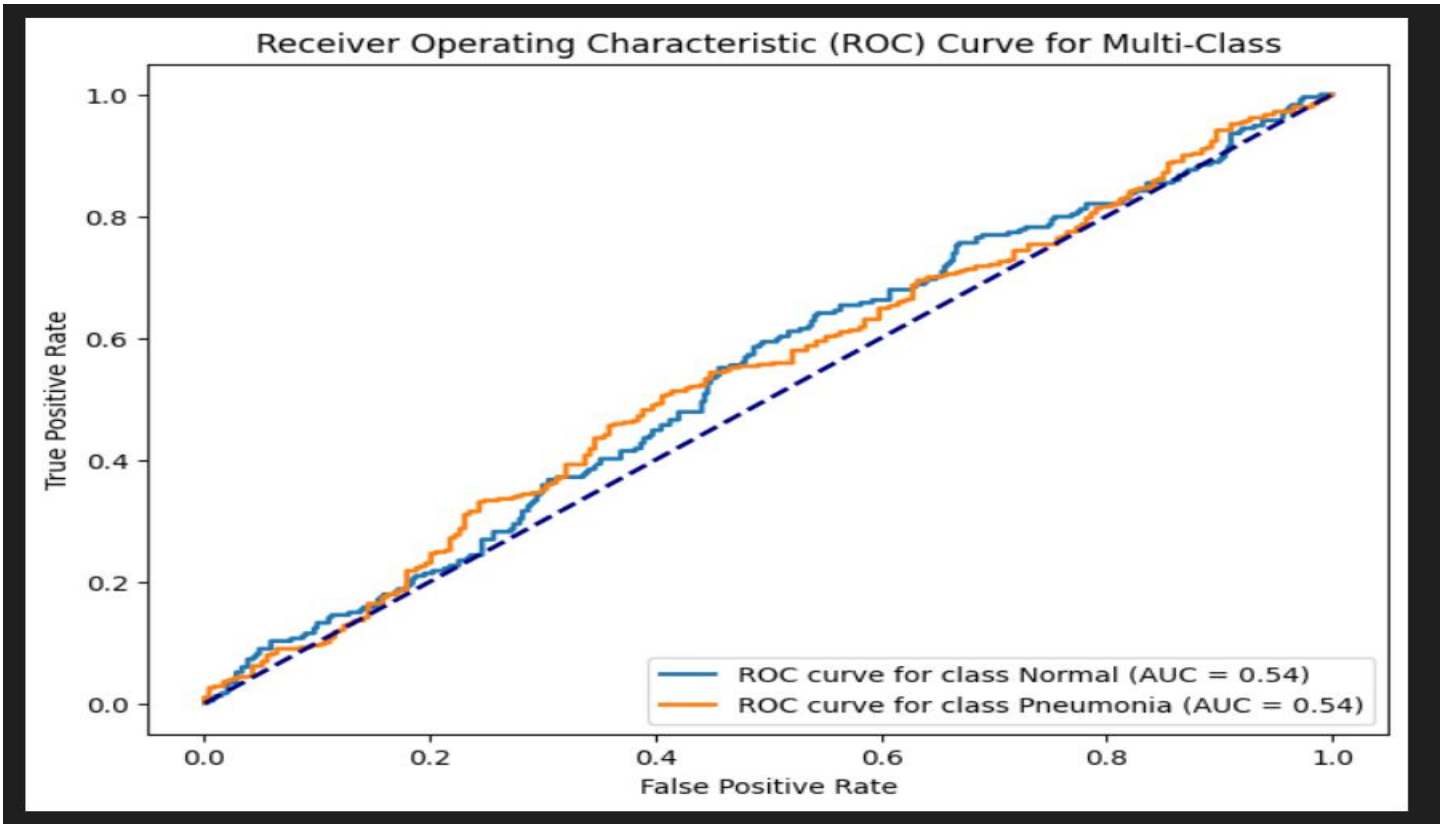
Feature selection	Non
Ration training	94%
Ration Validation	76%

Result details






Confusion Matrix
Normal
Peneumonia
Actual
32
202
64
326
Normal
Peneumonia
Predicted
300
250
200
150
100
50


Receiver Operating Characteristic (ROC) Curve for Multi-Class
True Positive Rate
False Positive Rate
0.0
0.2
0.4
0.6
0.8
1.0
ROC curve for class Normal (AUC = 0.54)
ROC curve for class Pneumonia (AUC = 0.54)

Model name : decision tree

General information on dataset

Dataset name	Mobile price
Total number of samples	13
Number of samples used in training	52
Number of samples used in testing	13

Implementation details

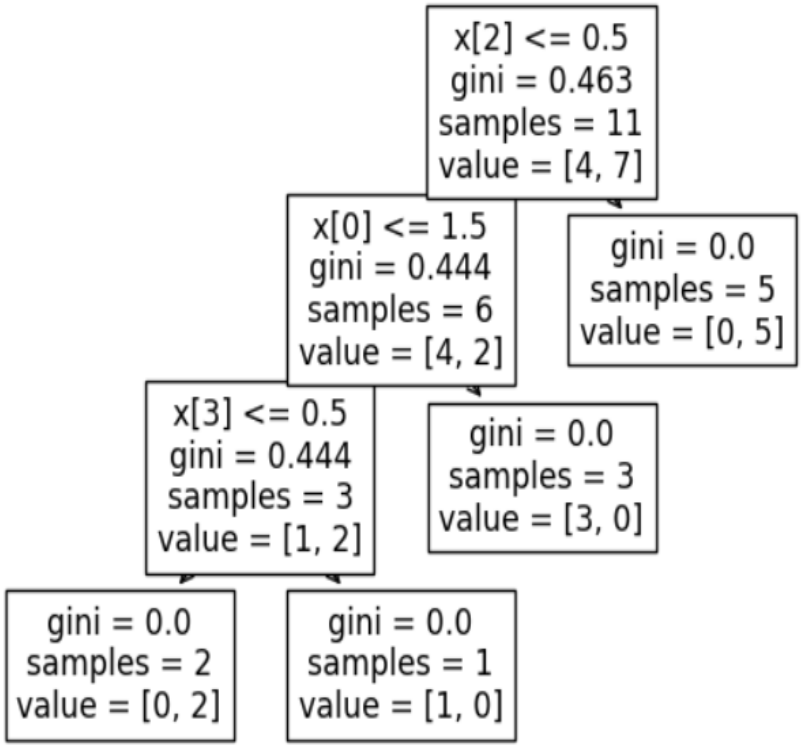
Feature selection	Non
Ration training	95%
Ration Validation	66%

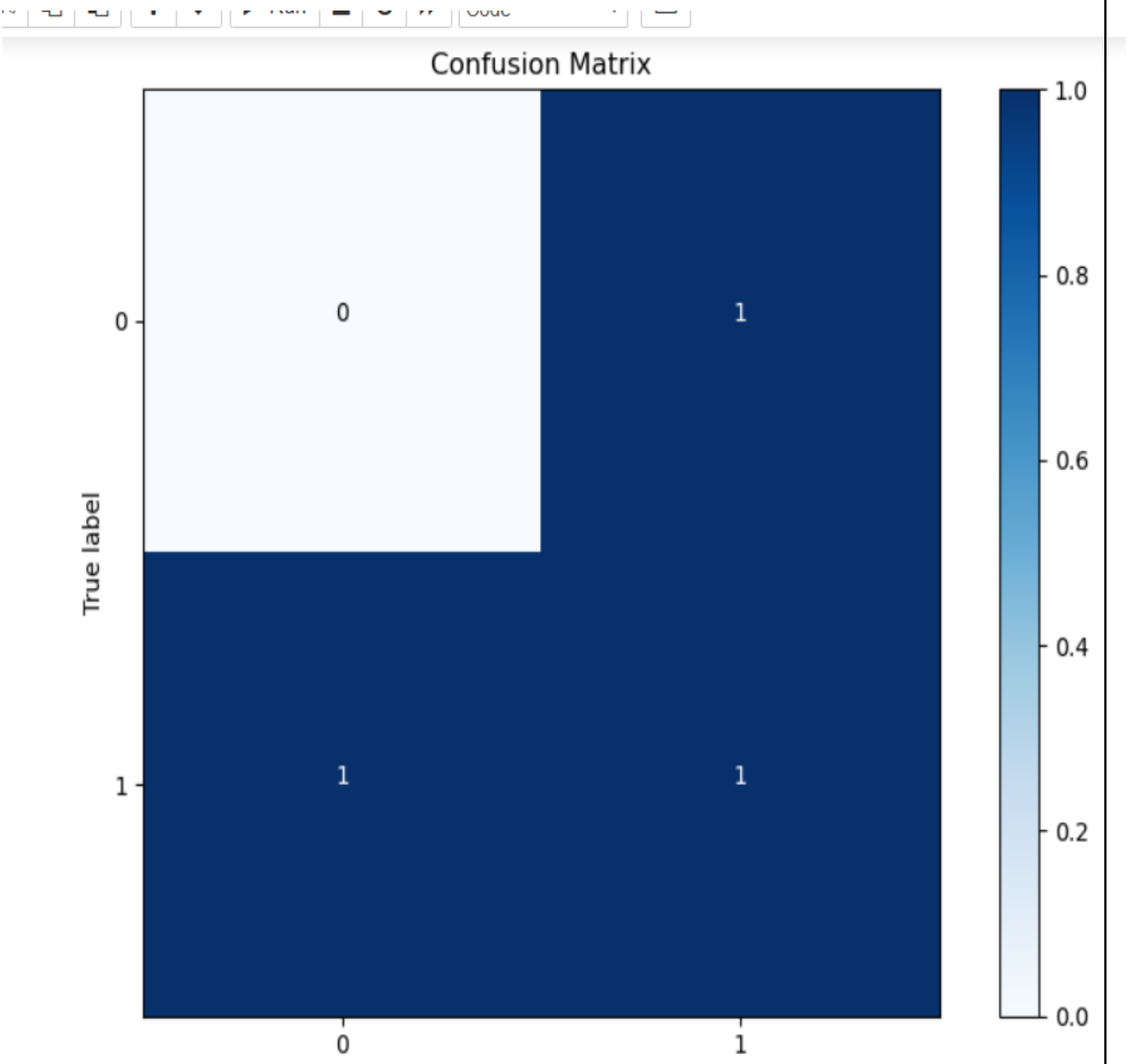
```
R-Square Value -1.9999999999999996
mean_absolute_error : 0.6666666666666666
mean_squared_error :  0.6666666666666666
root_mean_squared_error :  0.8164965809277726
```
acc : 0.666663

tree classifir

```
In [17]: from sklearn import tree
         tree.plot_tree(classifier)
```

```
Out[17]: [Text(0.6666666666666666, 0.875, 'x[2] <= 0.5\ngini = 0.463\nsamples = 11\nvalue = [4, 7]'),
          Text(0.5, 0.625, 'x[0] <= 1.5\ngini = 0.444\nsamples = 6\nvalue = [4, 2]'),
          Text(0.3333333333333333, 0.375, 'x[3] <= 0.5\ngini = 0.444\nsamples = 3\nvalue = [1, 2]'),
          Text(0.16666666666666666, 0.125, 'gini = 0.0\nsamples = 2\nvalue = [0, 2]'),
          Text(0.5, 0.125, 'gini = 0.0\nsamples = 1\nvalue = [1, 0]'),
          Text(0.6666666666666666, 0.375, 'gini = 0.0\nsamples = 3\nvalue = [3, 0]'),
          Text(0.8333333333333334, 0.625, 'gini = 0.0\nsamples = 5\nvalue = [0, 5]')]
```




Confusion Matrix
True label
0
1
0
1
0
1
1
1
1.0
0.8
0.6
0.4
0.2
0.0