Experiment-10

Aim:
performance evaluation of non classification model.

preRequisite:
google colab or Jupyter notebook.

Code:

```
from sklearn.matrix import confusion_matrix
  Cm = confusion_matrix(y_test, y_pred_test)

print (confusion_matrix(n/n, cm)
print ( True positives (TP)= '', cm [0,0] )

print ('\n True negative (TN) = ' cm[1,1] )
print ('\n false positive ( FP) = ', cm [0,1])
print (' \n False Negative, (FN) = ', cm[1,0])

cm, matrix = pd. Dataframe (data_cm, column, ['
        detual positive =1')

        'detual Negative =0'], index ['prediction
            positive, predicted negative=0' ])

sns. heatmap (cm_matrix', and = True,
        fol='d', cmap , y 'cmap')
```

from sklearn.matrix import Classification Report
print (classification report (y_test, y_pred test)

TP = cm[0,0]
TN = cm[1,1]
FP = cm[0,1]
FN = cm[1,0]

classification_accuracy = (TP + TN) / (TP + TN + FP + FN)

print ('Classification Accuracy : '= {0:0 }'. format (classification_report))

classification error:

classification_error = FN+FP / float (TN + TP + FN + FP)

print (classification error {0: 04f }: plot (classification error))

Conclusion:

we have successfully completed our experiment for SVMs

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