

Con

| ти [тэ]. |                                                                                                                                                                                                                                                                                                                                                                     |   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|          | C:\Users\Pravesh Singh\Anaconda3\lib\site-packages\sklearn\linear_model\_logistic.py:764: vergenceWarning: lbfgs failed to converge (status=1): STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.                                                                                                                                                                        | C |
|          | <pre>Increase the number of iterations (max_iter) or scale the data as shown in:    https://scikit-learn.org/stable/modules/preprocessing.html Please also refer to the documentation for alternative solver options:    https://scikit-learn.org/stable/modules/linear_model.html#logistic-regression    extra_warning_msg=_LOGISTIC_SOLVER_CONVERGENCE_MSG)</pre> |   |
| Out[15]: | LogisticRegression()                                                                                                                                                                                                                                                                                                                                                |   |
| In [16]: | y_pred=log_model.predict(X_test)                                                                                                                                                                                                                                                                                                                                    |   |
| In [17]: | import matplotlib.pyplot as plt                                                                                                                                                                                                                                                                                                                                     |   |
| In [18]: | v pred                                                                                                                                                                                                                                                                                                                                                              |   |
|          | 1 - F + 5 - 5                                                                                                                                                                                                                                                                                                                                                       |   |

Out[18]: array([2, 1, 0, 2, 0, 2, 0, 1, 1, 1, 2, 1, 1, 1, 1, 0, 1, 1, 0, 0, 2, 1,

Here we calculate the score In [19]: log\_model.score(X\_test,Y\_test) Out[19]: 1.0

0, 0, 2, 0, 0, 1, 1, 0])

In [ ]: In [20]: len(x) Out[20]: 150 In [21]: len(y) Out[21]: 150

In [22]: from sklearn.metrics import confusion\_matrix

In [23]: cm=confusion\_matrix(Y\_test,y\_pred)

In [24]: import seaborn as sns

In [27]: | plt.figure(figsize=(10,10)) sns.heatmap(cm, annot=True) Out[27]: <matplotlib.axes.\_subplots.AxesSubplot at 0x23540d33cc8> - 12.5 - 10.0 - 7.5 13 - 5.0 - 2.5