Assignment (3.2)

Implement a single classification model of your choice and try to achieve at least an 80% F1 score on the wine dataset provided by Sklearn.

Solution

1. First we import all required **libraries**.

2. Then load the **wine dataset** from **sklearn**.

3. Now, select last **4 columns of data** as **wine_x**.

4. And select **target data as wine_y**.

5. Then split data into train and test, transform and fit transform.

6. Now use **KneighborsClassifier as model**.

7. Now, use **model.fit**.

```
model.fit(x_train, y_train)

✓ 0.0s

W KNeighborsClassifier

KNeighborsClassifier()
```

Sheikh Muhammad Sabih (2303.KHI.DEG.010) M Humza Moeen (2303.KHI.DEG.019)

8. Now, **predict the model** and show the **f1 score**.

In the end, we are getting **91%** accuracy.