Logistic_Regression

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In [1]: from sklearn.datasets import load iris
        from sklearn.metrics import classification report, accuracy score
        from sklearn.model selection import train test split
        from sklearn.linear_model import LogisticRegression
In [2]: iris = load iris()
        X train, X test, y train, y test = train test split(iris.data, iris.target, test size = 0.4, random state = 17)
In [3]: model = LogisticRegression()
        model.fit(X train, v train)
        y pred = model.predict(X test)
        print(classification_report(y_test, y_pred, target_names = iris.target_names))
        print('\nAccuracy: {0:.4f}'.format(accuracy score(y test, y pred)))
                      precision
                                   recall f1-score
                                                      support
              setosa
                           1.00
                                     1.00
                                               1.00
                                                           15
          versicolor
                           1.00
                                     0.93
                                               0.96
                                                           27
           virginica
                           0.90
                                               0.95
                                                           18
                                     1.00
            accuracy
                                               0.97
                                                           60
           macro avg
                                               0.97
                                                           60
                           0.97
                                     0.98
                                               0.97
        weighted avg
                           0.97
                                     0.97
                                                           60
```

Accuracy: 0.9667