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In [2]: from sklearn.datasets import load breast cancer
        import pandas as pd
        from sklearn.model selection import train test split
        import numpy as np
        from sklearn.linear model import LogisticRegression
        from sklearn.metrics import accuracy score
In [3]: df = load breast cancer()
In [3]: df.feature names
Out[3]: array(['mean radius', 'mean texture', 'mean perimeter', 'mean area',
               'mean smoothness', 'mean compactness', 'mean concavity',
               'mean concave points', 'mean symmetry', 'mean fractal dimension',
               'radius error', 'texture error', 'perimeter error', 'area error',
               'smoothness error', 'compactness error', 'concavity error',
               'concave points error', 'symmetry error',
               'fractal dimension error', 'worst radius', 'worst texture',
               'worst perimeter', 'worst area', 'worst smoothness',
               'worst compactness', 'worst concavity', 'worst concave points',
               'worst symmetry', 'worst fractal dimension'], dtype='<U23')
In [4]: df.target names
        array(['malignant', 'benign'], dtype='<U9')</pre>
Out[4]:
In [5]: X train , X test , y train , y test = train test split(df.data ,df.target , test size =
In [6]: lr = LogisticRegression()
        lr.fit(X train,y train)
        C:\Users\soulo\anaconda3\lib\site-packages\sklearn\linear model\ logistic.py:458: Conver
        genceWarning: lbfgs failed to converge (status=1):
        STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.
        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
         n iter i = check optimize result(
Out[6]: ▼ LogisticRegression
       LogisticRegression()
In [7]: y_pred = lr.predict(X test)
In [8]: accuracy = accuracy_score(y test,y pred)
In [9]: accuracy*100
        93.85964912280701
Out[9]:
In [7]: !jupyter nbconvert --to webpdf --allow-chromium-download logistic.ipynb
        [NbConvertApp] Converting notebook logistic.ipynb to webpdf
        [NbConvertApp] Building PDF
        [NbConvertApp] PDF successfully created
        [NbConvertApp] Writing 137992 bytes to logistic.pdf
```

In []: