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In [1]:
       # pyhton module eklendi
       import sklearn
       # odevde verilen dataset yuklendi
      from sklearn.datasets import load breast cancer
In [2]: # Datasetimi yukledim
       data = load_breast_cancer()
In [3]: # datami duzenledim labeller ekledim
       label_names = data['target_adi']
      labels = data['target']
feature_names = data['feature_adi']
       features = data['data']
In [4]: # dataya bakmak
       print(label_names)
      ['malignant' 'benign']
In [5]: print(labels)
      [0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;1\;1\;1\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0\;0
       1 0 1 1 1 0 1 1 0 0 1 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 0 0 0 1 1
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       1 1 1 1 1 1 1 0 0 0 0 0 0 1]
In [6]: print(feature_names) #sadece merak feauture yani columnlara baktim
       ['mean radius' 'mean texture' 'mean perimeter' 'mean area
        mean moothness' 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 moothness' 'worst compactness' 'worst concavity'
'worst concave points' 'worst symmetry' 'worst fractal dimension']
In [7]: # functionu importladim
       from sklearn.model_selection import train_test_split
       # Datayi train ve test set olarak ayirdim test 33%- 67%
      In [8]: # ML modelimi importladim
       from sklearn.naive_bayes import GaussianNB
       #classifierin kurulmasi
       gnb = GaussianNB()
       # training modelimi sinifladim
      model = gnb.fit(train, train labels)
In [9]: # tahmin yurutme
      predictions = gnb.predict(test)
       # tahmini goruntuleme
      print(predictions)
      0 1 1]
In [10]: # dogruluk olcum functionunu import ettim
       from sklearn.metrics import accuracy score
       # test setimle predictionum ne kadar ortustu dogruluk orani 94.15% cikti basarili bir odev
       print(accuracy_score(test_labels, predictions))
      0.9414893617021277
In [ ]:
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