cancer dataset

```
In [1]:
                from sklearn.datasets import load_breast_cancer
                df=load_breast_cancer()
In [4]:
                x=df.data
In [5]:
In [6]:
                y=df.target
In [7]:
                from sklearn.naive_bayes import GaussianNB
                from sklearn.model_selection import train_test_split
In [8]:
In [9]:
                xtrain,xtest,ytrain,ytest=train_test_split(x,y,test_size=0.25,random_
                model=GaussianNB()
              3
                model
    Out[9]:
             ▼ Gaus$ianNB
             GaussianNB()
In [10]:
                model.fit(xtrain,ytrain)
   Out[10]:
             ▼ GaussianNB
             GaussianNB()
In [11]:
         M
                prediction=model.predict(xtest)
                prediction
   Out[11]: array([1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1, 1, 1, 1, 0, 1,
                   1, 1, 1, 0, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 1, 0, 1,
                   0, 1, 0, 0, 1, 0, 0, 0, 1, 1, 1, 0, 1, 0, 0, 1, 0, 1, 1, 1, 1, 0,
                   1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0, 1, 1, 1, 0, 1,
                   1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 1, 0, 1,
                   1, 0, 0, 1, 1, 1, 0, 0, 0, 1, 0])
In [12]:
                from sklearn.metrics import accuracy_score,confusion_matrix
```

```
In [13]:
                 accuracy_score(ytest,prediction)
   Out[13]: 0.965034965034965
In [14]:
                 confusion_matrix(ytest,prediction)
   Out[14]: array([[49, 5],
                    [ 0, 89]], dtype=int64)
           1 # Iris dataset
In [15]:
                 from sklearn.datasets import load_iris
In [16]:
                 dataset=load_iris()
                 x1=dataset.data
In [19]:
In [20]:
                 y1=dataset.target
                 from sklearn .model selection import train test split
In [21]:
                 x1train,x1test,y1train,y1test=train_test_split(x1,y1,test_size=0.25,r
In [22]:
                 from sklearn.naive_bayes import GaussianNB
                 model1=GaussianNB()
                 model1
               3
   Out[22]:
              ▼ GaussianNB
             GaussianNB()
In [23]:
                 model1.fit(x1train,y1train)
   Out[23]:
              ▼ GaussianNB
             GaussianNB()
In [24]:
                 prediction1=model1.predict(x1test)
          H
               2
                 prediction1
   Out[24]: array([0, 0, 0, 1, 0, 0, 0, 1, 0, 2, 2, 1, 1, 1, 0, 1, 1, 2, 1, 0, 1,
                    2, 0, 1, 1, 0, 2, 0, 2, 2, 1, 0, 0, 0, 2, 0, 2])
```