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# importing the Python module
import sklearn
# importing the dataset
from sklearn.datasets import load breast cancer
# loading the dataset
data = load breast cancer()
# Organize our data
label_names = data['target_names']
labels = data['target']
feature_names = data['feature_names']
features = data['data']
# looking at the data
print(label_names)
   ['malignant' 'benign']
print(labels)
   1 0 0 0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 0 0 1 0 0 1 1 1 1 1 0 1 0 0 1 1 1 1 1 0 1 0 0
   1 1 1 1 1 1 1 0 0 0 0 0 0 1]
print(feature_names)
   ['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']
print(features)
   [[1.799e+01 1.038e+01 1.228e+02 ... 2.654e-01 4.601e-01 1.189e-01]
   [2.057e+01 1.777e+01 1.329e+02 ... 1.860e-01 2.750e-01 8.902e-02]
   [1.969e+01 2.125e+01 1.300e+02 ... 2.430e-01 3.613e-01 8.758e-02]
    [1.660e+01 2.808e+01 1.083e+02 ... 1.418e-01 2.218e-01 7.820e-02]
   [2.060e+01 2.933e+01 1.401e+02 ... 2.650e-01 4.087e-01 1.240e-01]
   [7.760e+00 2.454e+01 4.792e+01 ... 0.000e+00 2.871e-01 7.039e-02]]
```

```
# importing the function
from sklearn.model_selection import train_test_split
# splitting the data
train, test, train_labels, test_labels = train_test_split(features, labels,
                         test_size = 0.33, random_state = 42)
# importing the module of the machine learning model
from sklearn.naive_bayes import GaussianNB
# initializing the classifier
gnb = GaussianNB()
# training the classifier
model = gnb.fit(train, train_labels)
# making the predictions
predictions = gnb.predict(test)
# printing the predictions
print(predictions)
   1011011111111001111100110011100111001
    0 1 1]
# importing the accuracy measuring function
from sklearn.metrics import accuracy_score
# evaluating the accuracy
print(accuracy_score(test_labels, predictions))
   0.9414893617021277
```