```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib as plt

df=sns.load_dataset("iris")
df.head()
```

|   | sepal_length | sepal_width | petal_length | petal_width | species | 1 | ılı |
|---|--------------|-------------|--------------|-------------|---------|---|-----|
| 0 | 5.1          | 3.5         | 1.4          | 0.2         | setosa  |   |     |
| 1 | 4.9          | 3.0         | 1.4          | 0.2         | setosa  |   |     |
| 2 | 4.7          | 3.2         | 1.3          | 0.2         | setosa  |   |     |
| 3 | 4.6          | 3.1         | 1.5          | 0.2         | setosa  |   |     |
| 4 | 5.0          | 3.6         | 1.4          | 0.2         | setosa  |   |     |

#selecting input and output

X=df.iloc[:,:-1]
Y=df.iloc[:,-1:]

from sklearn.naive\_bayes import GaussianNB
model = GaussianNB().fit(X,Y)
model

/usr/local/lib/python3.10/dist-packages/sklearn/utils/validation.py:1143: DataConversior
y = column\_or\_1d(y, warn=True)

▼ GaussianNB GaussianNB()

```
#train test split and checking accuracy
from sklearn.model_selection import train_test_split
X_train, X_test, Y_train ,Y_test=train_test_split(X,Y, test_size=0.2,random_state=0)
```

#Training the model on training data
from sklearn.naive\_bayes import GaussianNB
model = GaussianNB().fit(X\_train, Y\_train)
model

Colab paid products - Cancel contracts here

✓ 0s completed at 10:32 AM

X