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import numpy as np
import pandas as pd
from sklearn.neighbors import KNeighborsClassifier
from matplotlib import pyplot as plt

data={"BP":[120,145,190,167,146,170],
      "Cholesterol":[200,345,56,345,234,453],
      "HeartRisk": [0,0,0,1,1,1]}

df=pd.DataFrame(data)
print(df)

   BP Cholesterol HeartRisk
0  120          200        0
1  145          345        0
2  190          56         0
3  167          345        1
4  146          234        1
5  170          453        1

X=df[["BP","Cholesterol"]]
Y=df["HeartRisk"]

k=3
Knn=KNeighborsClassifier(n_neighbors=k)
Knn.fit(X,Y)

KNeighborsClassifier(n_neighbors=3)

new_data=np.array([[120,200]])
prediction=Knn.predict(new_data)
if prediction==0:
    print("No Risk")
else:
    print("At Risk")

No Risk

/usr/local/lib/python3.12/dist-packages/sklearn/utils/
validation.py:2739: UserWarning: X does not have valid feature names,
but KNeighborsClassifier was fitted with feature names
  warnings.warn(

```