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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':[120,130,140,150,160,170,180,190,200,210],
    'Cholestrol':[200,220,240,260,280,300,320,340,360,380],
    'HeartRisk':[0,0,0,0,1,1,1,1,1,1]
}
df=pd.DataFrame(data)
print(df)

      BP  Cholestrol  HeartRisk
0    120          200         0
1    130          220         0
2    140          240         0
3    150          260         0
4    160          280         1
5    170          300         1
6    180          320         1
7    190          340         1
8    200          360         1
9    210          380         1

X=df[['BP','Cholestrol']]
y=df['HeartRisk']

k=3
knn=KNeighborsClassifier(n_neighbors=k)
knn.fit(X,y)

KNeighborsClassifier(n_neighbors=3)

new_data=np.array([[210,250]])
prediction=knn.predict(new_data)
if prediction==1:
    print("Heart Risk")
else:
    print("No Heart Risk")
print(prediction)

Heart Risk
[1]

/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(

```