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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],
    'cholesterol': [200, 220, 240, 260, 280, 300, 320, 340, 360, 380],
    'HeartRisk': [0, 0, 0, 0, 0, 1, 1, 1, 1, 1]
}
df = pd.DataFrame(data)

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([[210,250]])
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(

```