

k-nn-1sv21cs038

June 27, 2024

```
[13]: import numpy as np
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import accuracy_score
import matplotlib.pyplot as plt

[16]: data=pd.read_csv("/content/drive/MyDrive/multiple_linear_regression_dataset.
.csv")

[17]: df = pd.DataFrame(data)

[18]: x = df[['age', 'experience']]
y = df['income']

[19]: k=3
knn = KNeighborsClassifier(n_neighbors=k)
#fit the model
knn.fit(x,y)

[19]: KNeighborsClassifier(n_neighbors=3)

[29]: new_data = np.array([[30,10]])#new patient with bp=150 and cholestrol=250
prediction = knn.predict(new_data)
if prediction == 30450:
    print("slary is low")
else:
    print("salary is high")
```

salary is high

/usr/local/lib/python3.10/dist-packages/sklearn/base.py:439: UserWarning: X does not have valid feature names, but KNeighborsClassifier was fitted with feature names
warnings.warn(