

```
In [3]: ▶ import pandas as pd
df = pd.read_csv('mldata.csv')
df.head()
```

```
Out[3]:
```

	age	weight	gender	likeness	height
0	27	76.0	Male	Biryani	170.688
1	41	70.0	Male	Biryani	165
2	29	80.0	Male	Biryani	171
3	27	102.0	Male	Biryani	173
4	29	67.0	Male	Biryani	164

```
In [5]: ▶ df['gender'] = df['gender'].map({'Male':1, 'Female':0})
```

```
In [8]: ▶ #Another way to replace

#df['gender'] = df['gender'].replace('Male', 1)
#df['gender'] = df['gender'].replace('Female', 0)
```

```
In [9]: x = df.iloc[:, 1:-2]
print(x)
y = df.iloc[:, 3:-1]
print(y)
```

	weight	gender
0	76.0	1
1	70.0	1
2	80.0	1
3	102.0	1
4	67.0	1
..	...	...
240	60.0	1
241	70.0	1
242	80.0	1
243	65.0	1
244	56.0	0

[245 rows x 2 columns]

	likeness
0	Biryani
1	Biryani
2	Biryani
3	Biryani
4	Biryani
..	...
240	Pakora
241	Biryani
242	Biryani
243	Biryani
244	Samosa

[245 rows x 1 columns]

```
In [13]: #from sklearn.neighbors import KNeighborsClassifier
#m = KNeighborsClassifier(n_neighbors=5)
#m.fit(x,y)
```

```
In [12]: #m.predict([[80,2]])
```

```
In [14]: 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)
```

```
In [15]: from sklearn.neighbors import KNeighborsClassifier
m = KNeighborsClassifier(n_neighbors=5)
m.fit(X_train,y_train)
```

```
c:\Users\MohHu\AppData\Local\Programs\Python\Python310\lib\site-packages\sklearn\neighbors\_classification.py:200: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for example using ravel().
    return self._fit(X, y)
```

Out[15]: KNeighborsClassifier()

**In a Jupyter environment, please rerun this cell to show the HTML representation or trust the notebook.**

**On GitHub, the HTML representation is unable to render, please try loading this page with nbviewer.org.**

```
In [17]: pre = m.predict(X_test)
pre
```

Out[17]: array(['Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani', 'Samosa', 'Biryani', 'Biryani', 'Biryani', 'Biryani',  
 'Biryani'], dtype=object)

```
In [20]: from sklearn.metrics import accuracy_score
```

```
s = accuracy_score(y_test, pre)
s
print("Accuracy is: ", s)
```

Accuracy is: 0.673469387755102

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