

```
import pandas as pd
df = pd.read_csv("mldata1.csv")
df["gender"] = df["gender"].replace("Male",1)
df["gender"] = df["gender"].replace("Female",0)
df.head()
```

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



▼ Select Input & Output Variable

```
X = df[["weight","gender"]]
y = df["likeness"]
```

```
# Machine learning algorithm
from sklearn.neighbors import KNeighborsClassifier
# Create and fit our model
model = KNeighborsClassifier(n_neighbors=9)
model.fit(X,y)
# predict the result
predicted =model.predict([[59,1]]) # 70 Weight, 1 Male
predicted
```

```
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:439: UserWarning: X does not have valid feature names, but
warnings.warn(
array(['Biryani'], dtype=object)
```

```
# How to measure the accuracy of model
# Split data into test and train(80/20)
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score
X_train, X_test, y_train, y_test = train_test_split(X,y,test_size=0.2)
#Create and fit a model
model = KNeighborsClassifier(n_neighbors=9).fit(X_train,y_train)
# predicting output
predicted_values = model.predict(X_test)
predicted_values

array(['Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',
       'Biryani', 'Biryani', 'Samosa', 'Biryani', 'Biryani', 'Pakora',
       'Biryani', 'Samosa', 'Biryani', 'Biryani', 'Biryani', 'Biryani',
       'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',
       'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',
       'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani', 'Biryani',
       'Biryani'], dtype=object)

# checking score
score = accuracy_score(y_test, predicted_values)
score
```

0.7142857142857143

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