

naive__bayes__test1

November 8, 2022

```
[1]: import pandas as pd
      from sklearn.model_selection import train_test_split
      from sklearn.naive_bayes import GaussianNB
```

```
[2]: df= pd.read_excel('naive_bayes_algorithm/test-data.xlsx')
      df=df.iloc[:, [7,8,9,10,11,12]]
      print(df.head(2).to_string())
      target= df.GA
      inputs=df.drop('GA', axis="columns")
      x_train, x_test, y_train, y_test = train_test_split(inputs, target, test_size=0.
      ↪2)
```

	Saves	Save%	CS	PSxG	Opposition	XG	GA
0	3.0	100.0	1.0	0.3		1.1	0.0
1	3.0	42.9	0.0	3.4		2.5	4.0

```
[3]: model=GaussianNB()
      model.fit(x_train,y_train)
      print(model.score(x_test,y_test))
      print(y_test)
      print(model.predict(x_test))
```

0.7283950617283951

174 1.0

343 1.0

317 3.0

106 0.0

347 0.0

...

175 1.0

146 0.0

196 7.0

50 0.0

292 2.0

Name: GA, Length: 81, dtype: float64

[1. 1. 2. 0. 0. 1. 0. 0. 1. 1. 3. 3. 3. 3. 0. 0. 3. 3. 1. 2. 3. 3. 0. 1.

1. 1. 2. 1. 0. 0. 0. 0. 1. 1. 0. 2. 2. 3. 1. 1. 2. 1. 1. 1. 0. 1. 3. 0.

0. 0. 1. 0. 1. 0. 1. 1. 2. 2. 1. 0. 1. 0. 1. 0. 0. 1. 1. 1. 3. 0. 1. 0.

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