Nama: Dimas Anggoro Sakti

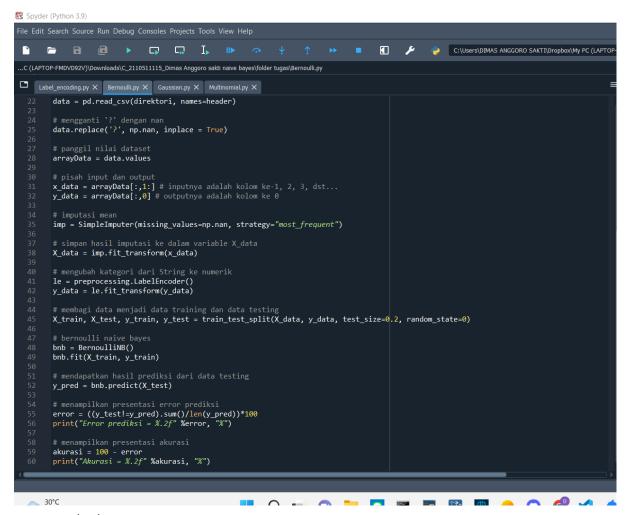
NIM: 2110511115

Kelas: C

Bernoulli Naïve Bayes input:

```
import pandas as pd
import numpy as np
from sklearn import preprocessing
from sklearn misort preprocessing
from sklearn maker bayes import BernoulliNB
from sklearn.model_selection import train_test_split
from sklearn.model_selection import train_test_split(x_data, y_data, test_size=0.2, random_state=0)

# mengganti from sklearn.model_selection import train_test_split(x_data, y_data, test_size=0.2, random_state=0)
```



- output:

In [1]: runfile('C:/Users/DIMAS ANGGORO SAKTI/Dropbox/My PC
(LAPTOP-FMDVD92V)/Downloads/C_2110511115_Dimas Anggoro sakti
naive bayes/folder tugas/Bernoulli.py', wdir='C:/Users/DIMAS
ANGGORO SAKTI/Dropbox/My PC (LAPTOP-FMDVD92V)/Downloads/
C_2110511115_Dimas Anggoro sakti naive bayes/folder tugas')
Error prediksi = 29.03 %
Akurasi = 70.97 %

Analisa:

Disini program mengilustrasikan probabilitas dataset hepatitis dengan metode Bernoulli Naïve Bayes

- Gaussian Naïve Bayes

- input:

```
# membagi data menjadi data training dan data testing
X_train, X_test, y_train, y_test = train_test_split(X_data, y_data, test_size=0.2, random_state=0)

# gaussian naive bayes
gnb = GaussianNB()
gnb.fit(X_train, y_train)

# mendapatkan hasil prediksi dari data testing
y_pred = gnb.predict(X_test)

# Menampilkan presentasi error prediksi
error = ((y_test!=y_pred).sum()/len(y_pred))*100
print("Error prediksi = %.2f" %error, "%")

# menampilkan presentasi akurasi
akurasi = 100 - error
print("Akurasi = %.2f" %akurasi, "%")
```

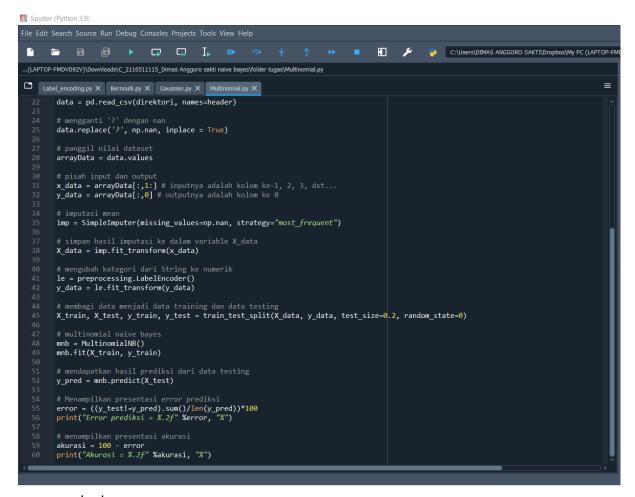
- output:

In [2]: runfile('C:/Users/DIMAS ANGGORO SAKTI/Dropbox/My PC
 (LAPTOP-FMDVD92V)/Downloads/C_2110511115_Dimas Anggoro sakti
 naive bayes/folder tugas/Gaussian.py', wdir='C:/Users/DIMAS
 ANGGORO SAKTI/Dropbox/My PC (LAPTOP-FMDVD92V)/Downloads/
 C_2110511115_Dimas Anggoro sakti naive bayes/folder tugas')
 Error prediksi = 22.58 %
 Akurasi = 77.42 %

Analisa:

Disini program mengilustrasikan probabilitas dataset hepatitis dengan metode Gaussian Naïve Bayes

- Multinomial Naïve Bayes
- input:



output:

```
In [3]: runfile('C:/Users/DIMAS ANGGORO SAKTI/Dropbox/My PC
  (LAPTOP-FMDVD92V)/Downloads/C_2110511115_Dimas Anggoro sakti
  naive bayes/folder tugas/Multinomial.py', wdir='C:/Users/DIMAS
  ANGGORO SAKTI/Dropbox/My PC (LAPTOP-FMDVD92V)/Downloads/
  C_2110511115_Dimas Anggoro sakti naive bayes/folder tugas')
  Error prediksi = 32.26 %
  Akurasi = 67.74 %
In [4]:
```

 Analisa: Disini program mengilustrasikan probabilitas dataset hepatitis dengan metode Multinomial Naïve Bayes