naive_bayes.py

```
df = pd.read csv('./Final Refined Encoded Normalysed.csv')
df0 = df[['SIM', 'CPU', 'GPU', 'memory card', 'weight g', 'screen to body ratio', \
  'primary camera', 'internal memory', 'Thickness',\
  'display size', 'OS', 'radio', 'RAM', 'EDGE'\
features = df0.values[:,:]
df1 = df[['Price']]
target = df1.values[:,0]
features train, features test, target train, target test = train test split(features,
target, test_size = 0.3, random_state = 10)
clf = BernoulliNB()
clf.fit(features train, target train)
target_pred = clf.predict(features_test)
accuracy rate = accuracy score(target test, target pred, normalize = True)
print("BernoulliNB Accuracy Rate:", accuracy_rate)
clf = MultinomialNB()
clf.fit(features train, target train)
target pred = clf.predict(features test)
accuracy rate = accuracy score(target test, target pred, normalize = True)
print("MultinomialNB Accuracy Rate:", accuracy_rate)
clf = GaussianNB()
clf.fit(features train, target train)
target pred = clf.predict(features test)
accuracy_rate = accuracy_score(target_test, target_pred, normalize = True)
print("GaussianNB Accuracy Rate:", accuracy_rate)
fo = open("./nb result.txt", "w")
fo.write(str(accuracy rate))
fo.close()
```

Output

→ python3 naive_bayes.py

BernoulliNB Accuracy Rate: 0.44503664223850764 MultinomialNB Accuracy Rate: 0.24783477681545638 GaussianNB Accuracy Rate: 0.47168554297135246