System Outputs on Development Data

Word-Based Tokenization Model Evaluation

In 21

```
y_dev = dev_df["label"]
y_dev = np.array(y_dev.map({"positive": 1, "negative": 0}))
y_dev = y_dev.tolist()
x_dev = x_dev_word_based_feature_matrix

wb_eval_predictions = nb_word_based_tokenization.predict(x_dev)
print(classification_report(y_dev, wb_eval_predictions))

```

Executed at 2024.08.09 10:54:06 in 753ms

```
              precision    recall  f1-score   support

           0       0.78      0.81      0.80       287
           1       0.75      0.72      0.73       225

    accuracy                           0.77       512
   macro avg       0.76      0.76      0.76       512
weighted avg       0.77      0.77      0.77       512
```

BPE Tokenization Model Evaluation

In 22

```
x_dev_bpe = x_dev_bpe_feature_matrix

bpe_eval_predictions = nb_word_based_tokenization.predict(x_dev_bpe)
print(classification_report(y_dev, bpe_eval_predictions))
```

Executed at 2024.08.09 10:54:06 in 32ms

```
              precision    recall  f1-score   support

           0       0.55      0.73      0.63       287
           1       0.41      0.24      0.30       225

    accuracy                           0.52       512
   macro avg       0.48      0.49      0.47       512
weighted avg       0.49      0.52      0.49       512
```