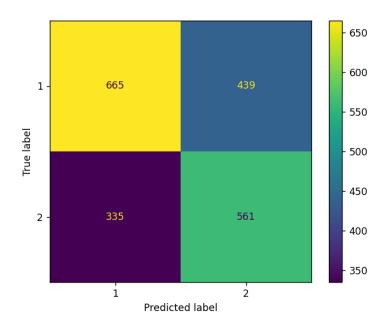
## Report

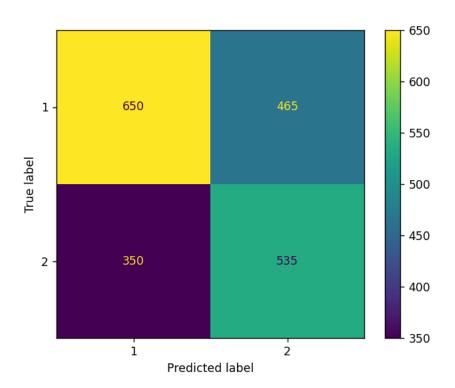
## 1)SkLearn:

A)By using text classification using gaussianNB and countvectorizer (BOW) and the accuracy of program on sample dataset (10000 from training set &2000 from test)



0.613				
	precision	recall	f1-score	support
1 2	0.60 0.63	0.67 0.56	0.63 0.59	1000 1000
accuracy macro avg weighted avg	0.61 0.61	0.61 0.61	0.61 0.61 0.61	2000 2000 2000

B) By using text classification using gaussianNB and tfidfvectorizer(TF-IDF) and the accuracy of program on sample dataset (10000 from training set &2000 from test)



0.5925				
	precision	recall	f1-score	support
1 2	0.58 0.60	0.65 0.54	0.61 0.57	1000 1000
accuracy macro avg weighted avg	0.59 0.59	0.59 0.59	0.59 0.59 0.59	2000 2000 2000

2)By using NLTK we make train test automatically because it's a training model already

	precision	recall	f1-score	support
1 2	0.79 0.67	0.59 0.84	0.67 0.75	1000 1000
accuracy macro avg weighted avg	0.73 0.73	0.72 0.72	0.72 0.71 0.71	2000 2000 2000

3)By using spacytextblob we make train test automatically because it's a training model already

			-	
	precision	recall	f1-score	support
1	0.70	0.78	0.74	1000
1	0.70	0.70	0.74	1000
2	0.75	0.67	0.71	1000
accuracy			0.72	2000
macro avg	0.73	0.72	0.72	2000
_				
veighted avg	0.73	0.72	0.72	2000
_				
(nln env)			<u> </u>	

## **TABLE OF ACCURACY**

	Using		SIA	spacytextblob
	Naïve Bayes			
	BOW	TF-IDF	NLTK	Spacy
Accuracy	0.61	0.59	0.72	0.72

After testing on a real data from Amazon using scraping using beautifulsoup on 9 records using SIA model we reach to an accuracy 100% as in the fig.

	precision	recall	f1-score	support
1	1.00	1.00	1.00	1
2	1.00	1.00	1.00	8
			1 00	0
accuracy			1.00	9
macro avg	1.00	1.00	1.00	9
weighted avg	1.00	1.00	1.00	9