Bag of Words

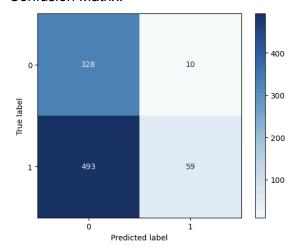
Naive Bayes:

(Q+C):

Best Parameters:

{'alpha': 0.001}

Confusion Matrix:



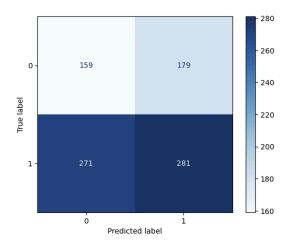
Classification Report:

Ciacomoation	i topoit.					
	preci	sion	recall	f1-score	support	
	0	0.40	0	.97	0.57	338
	1	0.86	0	.11	0.19	552
accur	acy				0.43	890
macro av	rg	0.63	0	.54	0.38	890
weighted av	rg	0.68	0	. 43	0.33	890

(L):

Best Parameters:

{'alpha': 100}



report.				
precisi	lon recal	ll f1-score	support	
0 0	.37	0.47	0.41	338
1 0	.61	0.51	0.56	552
асу			0.49	890
g 0	.49	0.49	0.48	890
g 0	.52	0.49	0.50	890
	precisi 0 0 1 0 acy	precision recal 0 0.37 1 0.61 acy g 0.49	precision recall f1-score 0 0.37 0.47 1 0.61 0.51 acy g 0.49 0.49	precision recall f1-score support 0 0.37 0.47 0.41 1 0.61 0.51 0.56 acy 0.49 0.49 0.48

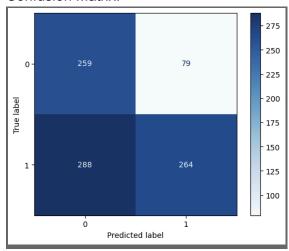
Logistic Regression

(Q+C):

Best Parameters:

```
{'C': 0.1, 'penalty': 'l1', 'solver': 'liblinear'}
```

Confusion Matrix:



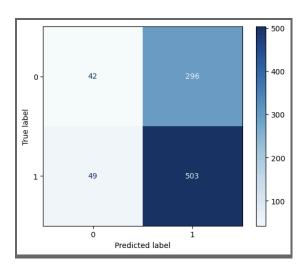
Classification Report:

	prec	ision	recall	f1-score	support	
	0	0.47	0 .	.77	0.59	338
	1	0.77	0 .	. 48	0.59	552
accur	асу				0.59	890
macro av	g	0.62	0 .	.62	0.59	890
weighted av	g	0.66	0 .	.59	0.59	890

(LA):

Best Parameters:

```
{'C': 0.1, 'penalty': 'l1', 'solver': 'liblinear'}
```



Classification Report:

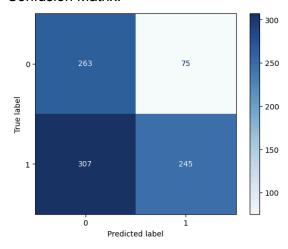
Classifica	tion R ϵ	eport:				
	preci	sion	recall	f1-score	support	
	0	0.46	0	.12	0.20	338
	1	0.63	0	.91	0.74	552
accui	racy				0.61	890
macro a	vg	0.55	0	.52	0.47	890
weighted a	vg	0.57	0	.61	0.54	890

SVM (Q+C):

Best Parameters:

{ 'C': 1, 'kernel': 'rbf' }

Confusion Matrix:



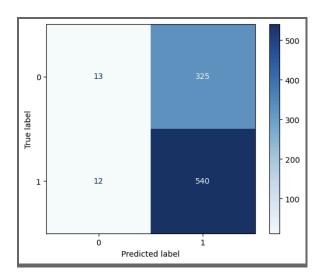
Classification Report:

	precision	recall	f1-score	support
0	0.46	0.78	0.58	338
1	0.77	0.44	0.56	552
accuracy			0.57	890
macro avg	0.61	0.61	0.57	890
weighted avg	0.65	0.57	0.57	890

(LA):

Best Parameters:

{'C': 1, 'kernel': 'rbf'}



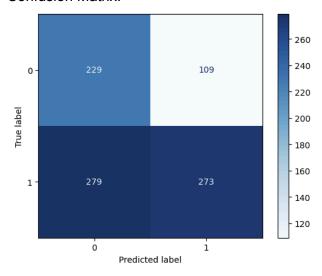
Ciassification	rteport.					
	preci	sion	recall	f1-score	support	
	0	0.52	0	.04	0.07	338
	1	0.62	0	.98	0.76	552
accur	асу				0.62	890
macro av	g	0.57	0	.51	0.42	890
weighted av	g	0.58	0	.62	0.50	890

Decision Tree (Q+C):

Best Parameters:

{'criterion': 'entropy', 'max features': None}

Confusion Matrix:



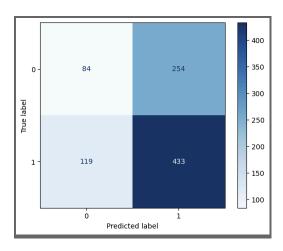
Classification Report:

	pre	cision	recall	f1-score	support	
	0	0.45	0.	68	0.54	338
	1	0.71	0.	49	0.58	552
accur	асу				0.56	890
macro av	7g	0.58	0.	.59	0.56	890
weighted av	7g	0.61	0.	56	0.57	890

(LA):

Best Parameters:

{'criterion': 'entropy', 'max_features': None}



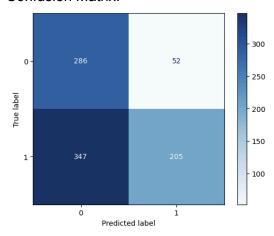
Classification	1 Керо	rt:				
	pred	cision	recall	f1-score	support	
	0	0.41	0	.25	0.31	338
	1	0.63	0	.78	0.70	552
accu	racy				0.58	890
macro a	ıvg	0.52	0	.52	0.50	890
weighted a	ıvg	0.55	0	.58	0.55	890

Random Forest (Q+C):

Best Parameters:

{'criterion': 'entropy'}

Confusion Matrix:



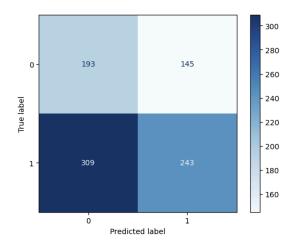
Classification Report:

Oldomodion Roport.									
	preci	sion	recall	f1-score	support				
	0	0.45	0,	.85	0.59	338			
	1	0.80	0.	.37	0.51	552			
accur	racy				0.55	890			
macro a	vg	0.62	0.	.61	0.55	890			
weighted a	vg	0.67	0,	.55	0.54	890			

(LA):

Best Parameters:

{'criterion': 'entropy'}



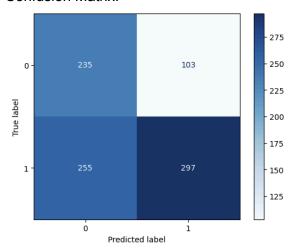
Ciacomoanon	opo					
	preci	sion	recall	f1-score	support	
	0	0.38	C	.57	0.46	338
	1	0.63	C	.44	0.52	552
accur	асу				0.49	890
macro av	rg	0.51	С	.51	0.49	890
weighted av	rg	0.53	C	.49	0.50	890

XGBoost (Q+C):

Best Parameters:

{'criterion': 'friedman mse', 'n estimators': 50}

Confusion Matrix:



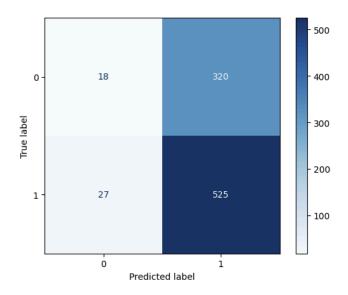
Classification Report:

	pre	cision	recall f1-sc	ore support	
	no	0.48	0.70	0.57	338
yes		0.74	0.54	0.62	552
acc	uracy			0.60	890
macro	avg	0.61	0.62	0.60	890
weighted	avg	0.64	0.60	0.60	890

(LA):

Best Parameters:

{'criterion': 'friedman_mse', 'n_estimators': 200}



Classification (Ceport.					
	precisi	on recal	l f1-score	e support	
	0 0	.40	0.05	0.09	338
	1 0	.62	0.95	0.75	552
accur	асу			0.61	890
macro av	g 0	.51	0.50	0.42	890
weighted av	g 0	.54	0.61	0.50	890
•					