

Word2Vec

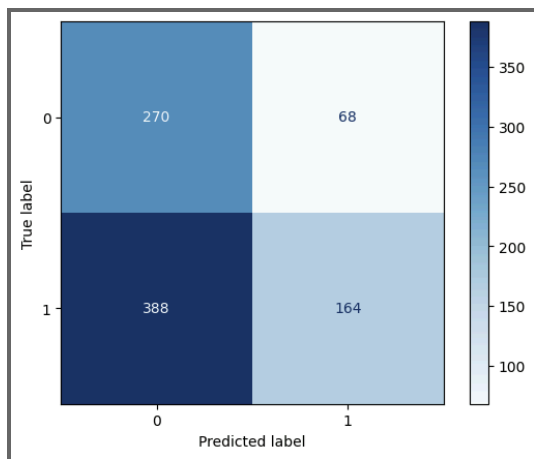
Logistic Regression

(Q+C):

Best Parameters:

```
{'C': 10, 'penalty': 'l1', 'solver': 'liblinear'}
```

Confusion Matrix:



Classification Report:

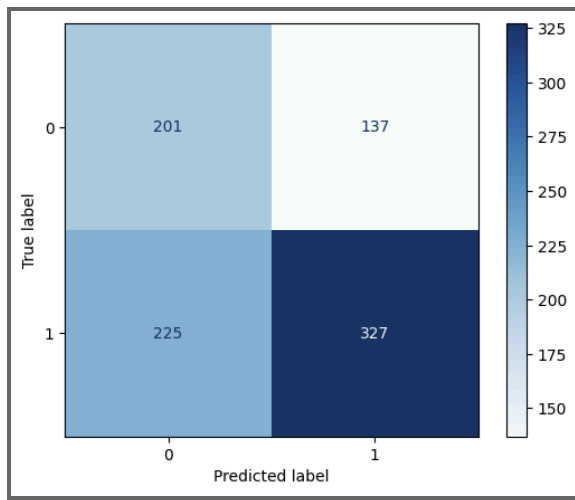
	precision	recall	f1-score	support
0	0.41	0.80	0.54	338
1	0.71	0.30	0.42	552
accuracy	0.49			890
macro avg	0.56	0.55	0.48	890
weighted avg	0.59	0.49	0.47	890

(LA):

Best Parameters:

```
{'C': 10, 'penalty': 'l1', 'solver': 'liblinear'}
```

Confusion Matrix:



Classification Report:

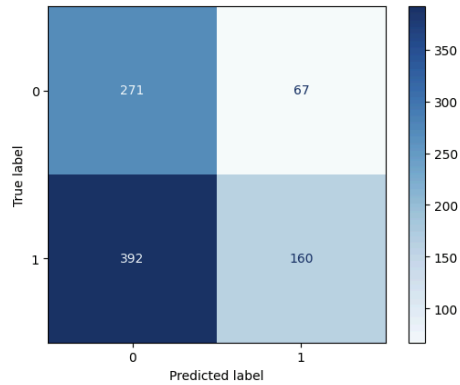
	precision	recall	f1-score	support
0	0.47	0.59	0.53	338
1	0.70	0.59	0.64	552
accuracy			0.59	890
macro avg	0.59	0.59	0.58	890
weighted avg	0.62	0.59	0.60	890

SVM (Q+C):

Best Parameters:

```
{'C': 10, 'kernel': 'rbf'}
```

Confusion Matrix:



Classification Report:

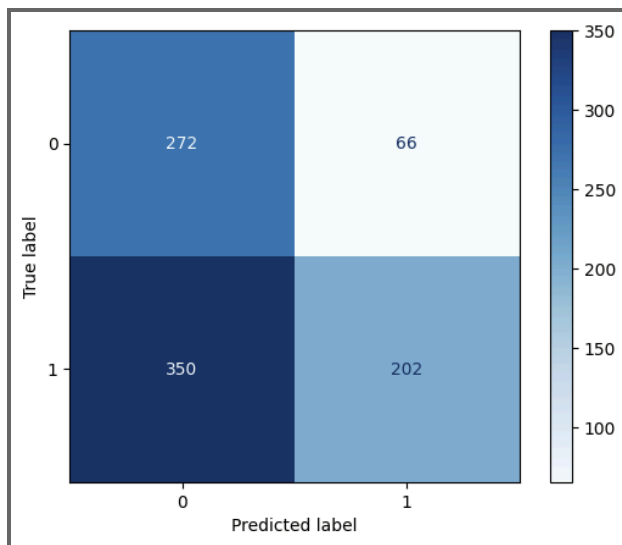
	precision	recall	f1-score	support
0	0.41	0.80	0.54	338
1	0.70	0.29	0.41	552
accuracy	0.48			890
macro avg	0.56	0.55	0.48	890
weighted avg	0.59	0.48	0.46	890

(LA):

Best Parameters:

```
{'C': 10, 'kernel': 'rbf'}
```

Confusion Matrix:



Classification Report:

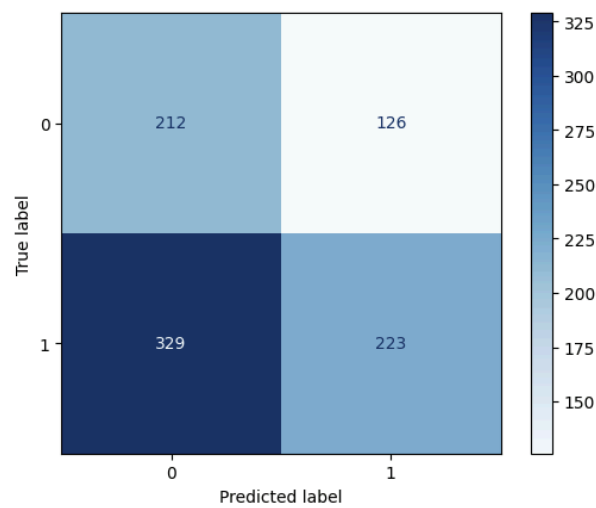
	precision	recall	f1-score	support
0	0.44	0.80	0.57	338
1	0.75	0.37	0.49	552
accuracy				0.53 890
macro avg				0.60 0.59 0.53 890
weighted avg				0.63 0.53 0.52 890

Decision Tree (Q+C):

Best Parameters:

```
{'criterion': 'gini', 'max_features': None}
```

Confusion Matrix:



Classification Report:

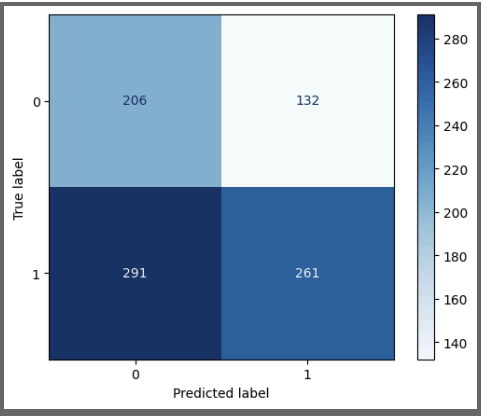
	precision	recall	f1-score	support
0	0.39	0.63	0.48	338
1	0.64	0.40	0.50	552
accuracy	0.49			890
macro avg	0.52	0.52	0.49	890
weighted avg	0.55	0.49	0.49	890

(LA):

Best Parameters:

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

Confusion Matrix:



Classification Report:

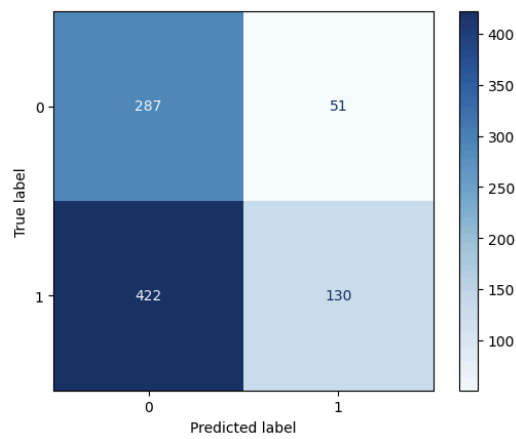
	precision	recall	f1-score	support
0	0.41	0.61	0.49	338
1	0.66	0.47	0.55	552
accuracy				0.52 890
macro avg				0.54 0.54 0.52 890
weighted avg				0.57 0.52 0.53 890

Random Forest (Q+C):

Best Parameters:

```
{'criterion': 'entropy'}
```

Confusion Matrix:



Classification Report:

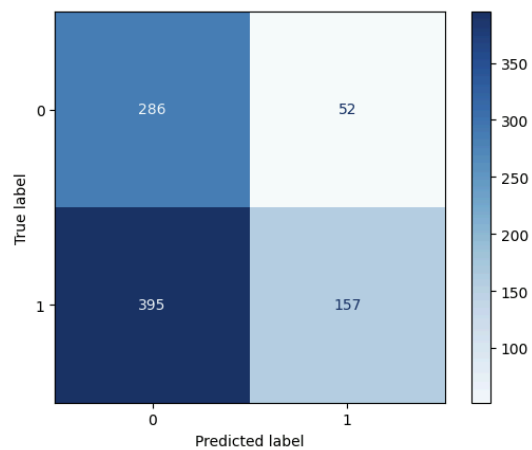
	precision	recall	f1-score	support
0	0.40	0.85	0.55	338
1	0.72	0.24	0.35	552
accuracy	0.47			890
macro avg	0.56	0.54	0.45	890
weighted avg	0.60	0.47	0.43	890

(LA):

Best Parameters:

```
{'criterion': 'entropy'}
```

Confusion Matrix:



Classification Report:

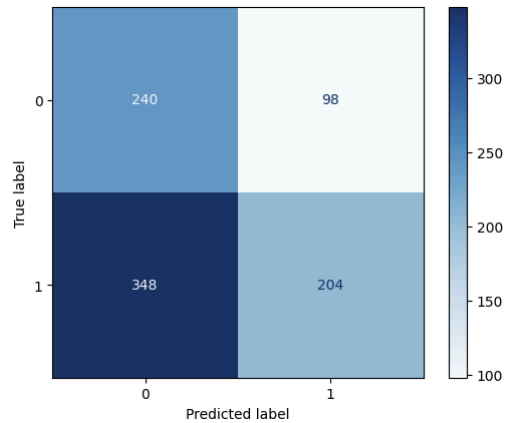
	precision	recall	f1-score	support
0	0.42	0.85	0.56	338
1	0.75	0.28	0.41	552
accuracy	0.50			890
macro avg	0.59	0.57	0.49	890
weighted avg	0.63	0.50	0.47	890

KNeighbours (Q+C):

Best Parameters:

```
{'n_neighbors': 5, 'weights': 'distance'}
```

Confusion Matrix:



Classification Report:

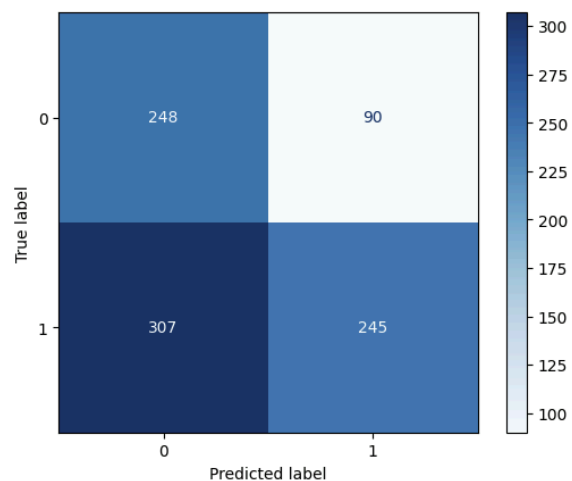
	precision	recall	f1-score	support
0	0.41	0.71	0.52	338
1	0.68	0.37	0.48	552
accuracy	0.50			890
macro avg	0.54	0.54	0.50	890
weighted avg	0.57	0.50	0.49	890

(LA):

Best Parameters:

```
{'n_neighbors': 5, 'weights': 'distance'}
```

Confusion Matrix:



Classification Report:

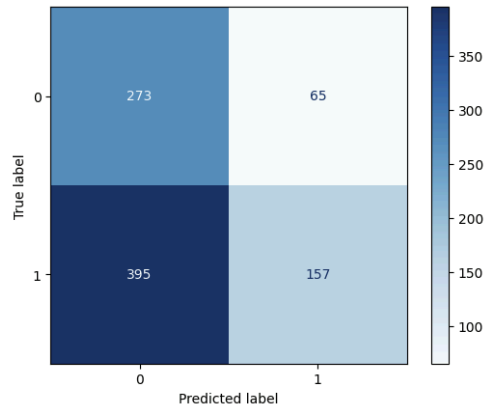
	precision	recall	f1-score	support
0	0.45	0.73	0.56	338
1	0.73	0.44	0.55	552
accuracy			0.55	890
macro avg	0.59	0.59	0.55	890
weighted avg	0.62	0.55	0.55	890

XGBoost (Q+C):

Best Parameters:

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

Confusion Matrix:



Classification Report:

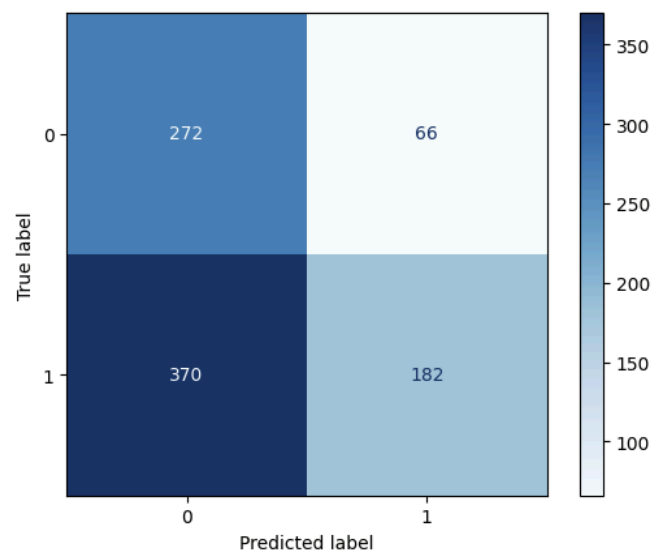
	precision	recall	f1-score	support
0	0.41	0.81	0.54	338
1	0.71	0.28	0.41	552
accuracy	0.48			890
macro avg	0.56	0.55	0.47	890
weighted avg	0.59	0.48	0.46	890

(LA):

Best Parameters:

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

Confusion Matrix:



Classification Report:

	precision	recall	f1-score	support
0	0.42	0.80	0.56	338
1	0.73	0.33	0.46	552
accuracy				0.51 890
macro avg				0.58 0.57 0.51 890
weighted avg				0.62 0.51 0.49 890