

TFIDF

LogisticRegression

TRAIN DATA

0.9025

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.92	0.78	0.84	3220
---	------	------	------	------

1	0.90	0.97	0.93	6380
---	------	------	------	------

accuracy			0.90	9600
----------	--	--	------	------

macro avg	0.91	0.87	0.89	9600
-----------	------	------	------	------

weighted avg	0.90	0.90	0.90	9600
--------------	------	------	------	------

TEST DATA

0.8379166666666666

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.82	0.65	0.72	780
---	------	------	------	-----

1	0.85	0.93	0.89	1620
---	------	------	------	------

accuracy			0.84	2400
----------	--	--	------	------

macro avg	0.83	0.79	0.80	2400
-----------	------	------	------	------

weighted avg	0.84	0.84	0.83	2400
--------------	------	------	------	------

MultinomialNB

TRAIN DATA

0.7286458333333333

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	1.00	0.19	0.32	3220
---	------	------	------	------

1	0.71	1.00	0.83	6380
---	------	------	------	------

accuracy			0.73	9600
----------	--	--	------	------

macro avg	0.85	0.60	0.58	9600
weighted avg	0.81	0.73	0.66	9600

TEST DATA

0.7045833333333333

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.96	0.09	0.17	780
---	------	------	------	-----

1	0.70	1.00	0.82	1620
---	------	------	------	------

accuracy			0.70	2400
----------	--	--	------	------

macro avg	0.83	0.55	0.50	2400
-----------	------	------	------	------

weighted avg	0.78	0.70	0.61	2400
--------------	------	------	------	------

=====

=====

LinearSVC

TRAIN DATA

0.984375

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.98	0.97	0.98	3220
---	------	------	------	------

1	0.99	0.99	0.99	6380
---	------	------	------	------

accuracy			0.98	9600
----------	--	--	------	------

macro avg	0.98	0.98	0.98	9600
-----------	------	------	------	------

weighted avg	0.98	0.98	0.98	9600
--------------	------	------	------	------

TEST DATA

0.8341666666666666

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.76	0.72	0.74	780
---	------	------	------	-----

1	0.87	0.89	0.88	1620
---	------	------	------	------

accuracy			0.83	2400
----------	--	--	------	------

macro avg	0.81	0.80	0.81	2400
-----------	------	------	------	------

weighted avg	0.83	0.83	0.83	2400
--------------	------	------	------	------

=====
=====
RandomForestClassifier

TRAIN DATA

1.0

	precision	recall	f1-score	support
0	1.00	1.00	1.00	3220
1	1.00	1.00	1.00	6380
accuracy			1.00	9600
macro avg	1.00	1.00	1.00	9600
weighted avg	1.00	1.00	1.00	9600

TEST DATA

0.7958333333333333

	precision	recall	f1-score	support
0	0.86	0.45	0.59	780
1	0.78	0.96	0.86	1620
accuracy			0.80	2400
macro avg	0.82	0.71	0.73	2400
weighted avg	0.81	0.80	0.77	2400

=====
=====
XGBClassifier

TRAIN DATA

0.9428125

	precision	recall	f1-score	support
0	0.96	0.87	0.91	3220
1	0.94	0.98	0.96	6380
accuracy			0.94	9600
macro avg	0.95	0.92	0.93	9600

weighted avg	0.94	0.94	0.94	9600
--------------	------	------	------	------

TEST DATA

0.8270833333333333

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.78	0.65	0.71	780
---	------	------	------	-----

1	0.84	0.91	0.88	1620
---	------	------	------	------

accuracy			0.83	2400
----------	--	--	------	------

macro avg	0.81	0.78	0.79	2400
-----------	------	------	------	------

weighted avg	0.82	0.83	0.82	2400
--------------	------	------	------	------

=====

=====

KNeighborsClassifier

TRAIN DATA

0.8464583333333333

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.87	0.64	0.74	3220
---	------	------	------	------

1	0.84	0.95	0.89	6380
---	------	------	------	------

accuracy			0.85	9600
----------	--	--	------	------

macro avg	0.85	0.80	0.81	9600
-----------	------	------	------	------

weighted avg	0.85	0.85	0.84	9600
--------------	------	------	------	------

TEST DATA

	precision	recall	f1-score	support
--	-----------	--------	----------	---------

0	0.73	0.50	0.59	780
---	------	------	------	-----

1	0.79	0.91	0.85	1620
---	------	------	------	------

accuracy			0.78	2400
----------	--	--	------	------

macro avg	0.76	0.70	0.72	2400
-----------	------	------	------	------

weighted avg	0.77	0.78	0.76	2400
--------------	------	------	------	------

=====