

Tuning

for c=10

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Logistic Regression

TRAIN DATA

0.9794791666666667

	precision	recall	f1-score	support
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0	0.97	0.96	0.97	3220
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1	0.98	0.99	0.98	6380
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accuracy			0.98	9600
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macro avg	0.98	0.98	0.98	9600
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weighted avg	0.98	0.98	0.98	9600
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TEST DATA

0.8379166666666666

	precision	recall	f1-score	support
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0	0.77	0.71	0.74	780
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1	0.86	0.90	0.88	1620
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accuracy			0.84	2400
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macro avg	0.82	0.80	0.81	2400
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weighted avg	0.84	0.84	0.84	2400
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for c=1

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Logistic Regression

TRAIN DATA

0.9025

	precision	recall	f1-score	support
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0	0.92	0.78	0.84	3220
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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

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for c=0.1

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Logistic Regression

TRAIN DATA

0.74625

	precision	recall	f1-score	support
0	0.94	0.26	0.41	3220
1	0.73	0.99	0.84	6380
accuracy			0.75	9600
macro avg	0.83	0.63	0.62	9600
weighted avg	0.80	0.75	0.69	9600

TEST DATA

0.7441666666666666

	precision	recall	f1-score	support
0	0.89	0.24	0.38	780

1	0.73	0.99	0.84	1620
accuracy			0.74	2400
macro avg	0.81	0.61	0.61	2400
weighted avg	0.78	0.74	0.69	2400

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