bush datasets

KNN Result

Classifier	KNeighborsClassifier			
Parameters	**n_neighbors=1**			
	result1	**result2**	**result3**	**mean result**
fit_time	5.40908599	5.03097796	4.99072194	5.1435952981
score_time	841.52749586	808.44048500	833.14367104	827.7038839658
test_f1	0.18289086	0.10795455	0.13031161	0.1403856719
test_precision	0.19135802	0.10857143	0.1299435	0.1432909854
test_recall	0.17514124	0.10734463	0.13068182	0.1377225646

Classifier	KNeighborsClassifier			
Parameters	**n_neighbors=3**			
	result1	**result2**	**result3**	**mean result**
fit_time	6.51542020	5.52433205	5.82914495	5.9562990665
score_time	808.20556283	870.69530129	840.76913714	839.8900004228
test_f1	0.06896552	0.06730769	0.03636364	0.05754562
test_precision	0.26923077	0.22580645	0.09090909	0.19531544
test_recall	0.03954802	0.03954802	0.02272727	0.03394111

Classifier	KNeighborsClassifier			
Parameters	**n_neighbors=5**			
	result1	**result2**	**result3**	**mean result**
fit_time	5.80563498	4.81308889	4.67249894	5.0970742702
score_time	765.92551994	802.09543490	755.14202189	774.3876589139
test_f1	0.01104972	0.02150538	0.02116402	0.0179063738
test_precision	0.25000000	0.22222222	0.15384615	0.2086894587
test_recall	0.00564972	0.01129944	0.01136364	0.0094375963

SVC classifier parameters that returned a mean zero f1

for gamma

value = (1/(X.shape[1]*X.std()))
value = 0.0008848321288178395

SVC classifier parameters that returned a mean zero f1				
C	**kernel**	**degree**	**gamma**	**coef0**
0.00001	linear	N/A	N/A	N/A
0.0001	linear	N/A	N/A	N/A
0.001	linear	N/A	N/A	N/A
1.000	linear	N/A	N/A	N/A
0.00001	poly	1	N/A	1
0.00001	poly	2	N/A	1
0.00001		3	N/A	1
0.0001	poly	1	N/A	1
0.0001	poly	2	N/A	1
0.0001		3	N/A	1
0.001	poly	1	N/A	1
0.001	poly	2	N/A	1
0.001		3	N/A	1
1.000	poly	1	N/A	1
1.000	poly	2	N/A	1
1.000		3	N/A	1
0.00001	rbf	N/A	value	N/A
0.0001	rbf	N/A	value	N/A
0.001	rbf	N/A	value	N/A
1.000	rbf	N/A	value	N/A

Best (in terms of mean F1) SVC result I got [best test_f1 = 0.6343929833]

Best (in terms of mean F1) SVC result I got				
Parameters	C = 100, kernel = 'poly', degree = 3, coef0 = 1			
	result1	**result2**	**result3**	**mean result**
fit_time	59.23813605	56.15270615	55.172333	56.8543917333
score_time	72.70101810	66.58980393	64.87317395	68.0546653267
test_f1	0.67128028	0.61073826	0.62116041	**0.6343929833**
test_precision	0.86607143	0.75206612	0.77777778	0.7986384433
test_recall	0.54802260	0.51412429	0.51704545	0.5263974467