Classifier	KNeighborsClassifier				
Parameters	n_neighbors=1				
	result1	result2	result3	mean result	
fit_time	13.32839894	13.69279909	13.69477296	13.57199033	
score_time	1588.498447	1593.135978	1593.033191	1591.555872	
test_f1	0.34782609	0.2	0	0.182608697	
test_precision	0.8	0.66666667	0	0.48888889	
test_recall	0.22222222	0.11764706	0	0.11328976	
Classifier	KNeighborsClassifier				
Parameters	n_neighbors=3				
	result1	result2	result3	mean result	
fit_time	9.90811205	10.2562499	10.04088545	10.0684158	
score_time	1140.680234	1134.264972	1134.478688	1136.474631	
test_f1	0	0	0	0	
test_precision	0	0	0	0	
test_recall	0	0	0	0	
Classifier	KNeighborsClassifier				
Parameters	n_neighbors=5				
	result1	result2	result3	mean result	
fit_time	10.16839671	10.2444551	10.09349418	10.168782	
score_time	1447.243145	1447.317697	1451.058705	1448.539849	
test_f1	0	0	0	0	
test_precision	0	0	0	0	
test_recall	0	0	0	0	
SVC classifier parameters that returned a mean zero f1					
C	kernel	degree	gamma	class_weight	f1_mean
1	linear	N/A	N/A	N/A	0.518742983
4	linear	N/A	N/A	N/A	0.518742983
7	linear	N/A	N/A	N/A	0.518742983
10	linear	N/A	N/A	N/A	0.518742983
0.1	linear	N/A	N/A	N/A	0.518742983
0.4	linear	N/A	N/A	N/A	0.518742983
0.7	linear	N/A	N/A	N/A	0.518742983
1	linear	N/A	N/A	balanced	0.518742983
10	linear	N/A	N/A	balanced	0.518742983
0.1	linear	N/A	N/A	balanced	0.518742983
1	poly	3	N/A	N/A	0
0.4	poly	3	N/A	N/A	0
10	poly	3	N/A	N/A	0
0.1	poly	3	N/A	N/A	0
0.4	poly	3	N/A	N/A	0
0.7	poly	3	N/A	N/A	0
1	poly	1	N/A	N/A	0
10	poly	1	N/A	N/A	0

C	kernel	degree	gamma	class_weight	mean F1
0.1	poly	1	N/A	N/A	0
1	poly	5	N/A	N/A	0
10	poly	5	N/A	N/A	0
0.1	poly	5	N/A	N/A	0
1	rbf	N/A	auto	N/A	0
10	rbf	N/A	auto	N/A	0
0.1	rbf	N/A	auto	N/A	0
1	rbf	N/A	scale	N/A	0
10	rbf	N/A	scale	N/A	0
0.1	rbf	N/A	scale	N/A	0
1	sigmoid	N/A	N/A	N/A	0
10	sigmoid	N/A	N/A	N/A	0
0.1	sigmoid	N/A	N/A	N/A	0
1	sigmoid	N/A	N/A	balanced	0.17739115
10	sigmoid	N/A	N/A	balanced	0.29649557
0.1	sigmoid	N/A	N/A	balanced	0.080514983

Best (in terms of mean F1) SVC result I got

Parameters	C = 1	kernel = linear	N/A		
	result1	result2	result3	mean result	
fit_time	17.47926998	17.08632135	16.26252294	16.94270476	
score_time	17.69373465	17.39549565	16.53679013	17.20867348	
test_f1	0.6	0.59259259	0.36363636	0.518742983	
test_precision	0.75	0.8	0.8	0.783333333	
test_recall	0.5	0.47058824	0.23529412	0.401960787	