Chethan Kothwal A20423243

Classifier	KNeighborsClas	sifier		
Parameters	n_neighbors=1			
1	result1	result2	result3	mean result
fit_time	5.52320743	5.55115509	5.41955829	
score time	807.7605839	809.2915378	810.0644186	809.0388467
test f1	0.27272727		0.18181818	0.24242424
test_precision	0.75	0.6	0.4	0.583333333
test recall	0.16666667	0.17647059	0.11764706	0.153594773
_				
Classifier	KNeighborsClas	sifier		
Parameters	n_neighbors=3			
	result1	result2	result3	mean result
fit_time	5.43446922	5.48433638	5.30481577	5.40787379
score_time	824.6020501	823.2132363	824.5251393	824.1134752
test_f1	0	0.1111111	0	0.037037033
test_precision	0	1	0	0.333333333
test_recall	0	0.05882353	0	0.019607843
Classifier	KNeighborsClas	sifier		
Parameters	n_neighbors=5			
fit time	result1 5.62055898	result2 5.66564155	result3 5.62094331	mean result 5.635714613
fit_time score_time	824.454098			
test f1	024.434038			
test_precision	0	0		
test_recall	0	0	0	0
_	arameters that re			
C 0.0000001	kernel	degree N/A	gamma N/A	
0.000001		N/A	N/A	
0.00001		N/A	N/A	
0.0001		N/A	N/A	
0.001	linear	N/A	N/A	
0.0000001	noly	2	N/A	
0.000001	• •		N/A	
0.00001	• •		N/A	
0.0001	•		N/A	
0.001	•		N/A	
	poly poly		N/A N/A	
	poly		N/A	
	poly		N/A	
0.0001	poly		N/A	
0.001	•		N/A	
	poly		N/A	
	poly		N/A N/A	
	poly poly		N/A N/A	
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100	poly		3	N/A
0.0001	poly		4	N/A
0.001	poly		4	N/A
0.01			4	N/A
0.1	poly		4	N/A
1	poly		4	N/A
	poly		4	N/A
	poly		4	N/A
0.0001			5	N/A
0.001			5	N/A
0.01			5	N/A
	poly		5	N/A
	poly		5	N/A
	poly		5	N/A
	poly		5	N/A
1000			5	N/A
0.0001	rbf	N/A		auto
0.001	rbf	N/A		auto
0.01	rbf	N/A		auto
0.1	rbf	N/A		auto
1	rbf	N/A		auto
10	rbf	N/A		auto
0.01	sigmoid			
0.1	sigmoid			
1	sigmoid			

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

Parameters	C=100 result1	kernel=rbf result2	gamma = auto result3	mean result
fit_time	17.39348722	17.49322	16.22461319	17.0371068
score_time	18.47786975	18.53571296	17.89639258	18.3033251
test_f1	0.59259259	0.52173913	0.5	0.538110573
test_precision	0.88888889	1	0.63636364	0.841750843
test_recall	0.4444444	0.35294118	0.41176471	0.40305011