Resolution of original digits dataset (x,y): (8, 8)

Dataset shape (1797, 8, 8)

Train Classification report for classifier SVC(C=0.5, gamma=0.01):

	precision	recall	f1-score	support
0	1.00	1.00	1.00	140
1	1.00	1.00	1.00	147
2	1.00	1.00	1.00	150
3	1.00	1.00	1.00	146
4	1.00	1.00	1.00	147
5	1.00	1.00	1.00	142
6	1.00	1.00	1.00	144
7	1.00	1.00	1.00	142
8	1.00	1.00	1.00	136
9	1.00	1.00	1.00	143
accuracy			1.00	1437
macro avg	1.00	1.00	1.00	1437
weighted avg	1.00	1.00	1.00	1437

Best Train hyperparameters were: {'gamma': 0.01, 'C': 0.5}

Validation Classification report for classifier SVC(C=0.7, gamma=0.01):

	precision	recall	f1-score	support
0 1 2	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	22 15 12
3	1.00	1.00	1.00	20
4	1.00	1.00	1.00	21
5	1.00	1.00	1.00	18
6	1.00	1.00	1.00	18
7	1.00	1.00	1.00	17
8	1.00	1.00	1.00	21
9	1.00	1.00	1.00	17
accuracy			1.00	181
macro avg	1.00	1.00	1.00	181
weighted avg	1.00	1.00	1.00	181

Best Validation hyperparameters were: {'gamma': 0.01, 'C': 0.7}

Test Classification report for classifier SVC(C=0.2, gamma=0.001): support precision recall f1-score 1.00 0 1.00 1.00 16 1 1.00 1.00 1.00 20 2 1.00 1.00 1.00 15 3 1.00 0.88 0.94 17 4 1.00 13 1.00 1.00 5 1.00 1.00 1.00 22 6 1.00 1.00 1.00 19 7 20 0.95 1.00 0.98 0.94 0.97 8 1.00 17 9 1.00 1.00 1.00 20 0.99 179 accuracy macro avg 0.99 0.99 0.99 179 weighted avg 0.99 0.99 179 0.99 Best Test hyperparameters were: {'gamma': 0.001, 'C': 0.2}