

Phase 1 results

Classifier	Parameters	Mean F1
KNeighborsClassifier	n_neighbors=1	0.21174603
KNeighborsClassifier	n_neighbors=3	0
KNeighborsClassifier	n_neighbors=5	0
SVC (Best result)	C=1.0 kernel=linear	0.520215053

Phase 2 best results

Best result for KNeighborsClassifier	
PCA parameters	n_components= 55 , copy=False, whiten=True, svd_solver='auto', iterated_power='auto'
KNeighborsClassifier parameters	n_neighbors = 1, n_jobs = -1
Mean F1	0.225845410628019

Best result for SVC

PCA parameters	n_components= 0.95
SVC parameters	C = 4.0 , kernel = 'poly', coef0= 5.0 ,degree = 10 , gamma=1/(X.shape[1]*X.std())
Mean F1	0.558943907675791