Phase 1 results

Classifier	Parameters	Mean F1
KNeighborsClassifier	n_neighbors=1	0.148941868
KNeighborsClassifier	n_neighbors=3	0.062646352
KNeighborsClassifier	n_neighbors=5	0.062646352
SVC (Best result)	C=2000, kernel='rbf',gamma=0.0001	0.630096922

Phase 2 best results

Best result for KNeighborsClassifier

PCA parameters	n_components=50,svd_solver='randomized',whiten=True
KNeighborsClassifier para	n_neighbors=1
Mean F1	0.172720947

Best result for SVC

PCA parameters	n_components=450
SVC parameters	C=2000, kernel='rbf',gamma=0.0001
Mean F1	0.522980322

Classifier	Parameters	Mean F1
KNeighborsClassifier	n_neighbors=1	
KNeighborsClassifier	n_neighbors=3	
KNeighborsClassifier	n_neighbors=5	