

Less/More Overlapping.

To test with more overlapping I changed the cluster centers to make them closer:

(0,0)

(1,0)

(0, 0.5)

(1,1)

With these tighter cluster centers our performance decreased. At 4 clusters, the silhouette score was 0.337. It became more difficult to differentiate between the clusters leading to a higher chance of misclassification.

