

1. Spectral Clustering

- (a) Spectral is better than kmeans because this can separate the concentric circles very well.
- (b) Spectral is better than kmeans in accuracy

2. Principal Component Analysis

- (b)
- (ii) I use $k=1$ for knn and test the accuracy is 75.5, 80.0, 82.0, 85.0, 85.0