

## **Week 9 Clustering Algorithms**

### Discussion Questions

1. What is cluster analysis? Compare partitional vs. hierarchical clustering.
2. Discussions of distance functions
3. Data preprocessing and preparation for clustering algorithm
4. How does K-means algorithm work? The objective function? Hyper-parameters?
5. How does hierarchical agglomerative algorithm work? Hyper-parameters?
6. Compare K-means algorithm and HAC
7. Python demo of cluster analysis