

Classification: K-means clustering

Implement the K-means clustering algorithm and apply it to the data in *2D_points_for_Kmeans.txt*

Try the following options:

- 1) Set the number of clusters to 2, initialize their centers and perform K-means clustering;
- 2) The number of clusters is still two, but make a different initialization of their centers;
- 3) Set the number of clusters to 3 and repeat the two previous tasks.

Compare the results and explain the differences including the number of iterations for convergence.