## ניסויים

## Kmeans:

| Optimal number of clusters based on Silhouette Score: 6 and his score 0.72511816300                  | ð59241 |
|--|--------|
| ▼ KMeans © ©   |        |
| <pre>KMeans(init='random', n_clusters=6, random_state=42)</pre>                                      |        |
|  |        |
| Optimal number of clusters based on Silhouette Score: 8 and his score 0.7162592548  * KMeans 0 0     | 69025  |
| KMeans(random_state=42)  |        |
| Optimal number of clusters based on Silhouette Score: 8 and his score 0.716259254                    | 869025 |
| * KMeans   |        |
| KMeans(algorithm='elkan', random_state=42)   |        |
| Optimal number of clusters based on Silhouette Score: 6 and his score 0.725118163005                 | 9241   |
| ▼ KMeans ① ○   |        |
| <pre>KMeans(algorithm='elkan', init='random', max_iter=200, n_clusters=6,     random_state=42)</pre> |        |
| Optimal number of clusters based on Silhouette Score: 6 and his score 0.725118163005                 | 0241   |
|  | 9241   |
| N Cuits  |        |
| <pre>KMeans(init='random', max_iter=1000, n_clusters=6)</pre>  |        |

1 התוצאה הטובה ביותר היא ניסוי מספר

## AgglomerativeClustering:

|   | Optimal number of clusters based on Silhouette Score: 6 and his score 0.7256900714288006 |
|---|--|
|   | ▼ AgglomerativeClustering ○ ○  |
|   | AgglomerativeClustering(n_clusters=6)  |
|   |  |
| ) | ptimal number of clusters based on Silhouette Score: 10 and his score 0.7078385268925678 |
|   | * AgglomerativeClustering  |
| μ | AgglomerativeClustering(linkage='complete', metric='l2', n_clusters=10)                  |
| C | Optimal number of clusters based on Silhouette Score: 5 and his score 0.6923413939127293 |
|   | * AgglomerativeClustering  |
| , | AgglomerativeClustering(linkage='single', n_clusters=5)                                  |
| ) | ptimal number of clusters based on Silhouette Score: 5 and his score 0.6923413939127293  |
|   | * AgglomerativeClustering © ©  |
| F | AgglomerativeClustering(linkage='single', metric='l2', n_clusters=5)                     |
|   |  |
| ) | ptimal number of clusters based on Silhouette Score: 6 and his score 0.7256900714288006  |
|   | • AgglomerativeClustering © ®  |
| Α | AgglomerativeClustering(compute_distances=True, n_clusters=6)                            |
| - |  |

5 התוצאה הטובה ביותר היא ניסוי מספר

## Dbscan:

```
DBSCAN(eps=1.0)
the score:0.613327782899459

DBSCAN(eps=1.0)
the score:0.7070123298589694

DBSCAN(eps=1.0, min_samples=20)
the score:0.6612622555185036

DBSCAN(eps=1.0, min_samples=2)
the score:0.5798728445599673

DBSCAN(algorithm='kd_tree', eps=1.0)
the score:0.7070123298589694
```

5 התוצאה הטובה ביותר היא ניסוי