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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DBSCAN |  | 0 | 0 | 0 | -1 | 0 | 0 | -1 | 0 | 0 | -1 | 0 | 0 | -1 | 0 | 0 | -1 | 0 | 0 | -1 | 0 | 0 |
| Kmeans | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 6 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 0 |
|  | 9 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 8 | 6 | 0 | 3 | 2 | 0 | 7 | 5 | 0 | 7 | 1 | 0 | 0 |
| Normalize | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 6 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 9 | 0 | 0 | 0 | 4 | 0 | 8 | 3 | 0 | 8 | 6 | 0 | 0 | 2 | 0 | 7 | 5 | 0 | 7 | 1 | 0 | 0 |
| hierarchical | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 6 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 9 | 0 | 0 | 0 | 4 | 0 | 8 | 3 | 0 | 8 | 6 | 0 | 8 | 2 | 0 | 7 | 5 | 0 | 7 | 1 | 0 | 0 |
| Normalize | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 6 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
|  | 9 | 0 | 0 | 0 | 4 | 0 | 8 | 3 | 0 | 8 | 6 | 0 | 0 | 2 | 0 | 7 | 5 | 0 | 7 | 1 | 0 | 0 |
| OPTICS |  | 0 | 0 | -1 | -1 | 0 | -1 | -1 | 0 | -1 | -1 | 0 | -1 | -1 | 0 | 2 | 1 | 3 | 2 | 1 | 3 | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

DBSCAN : [ 0 0 0 -1 0 0 -1 0 0 -1 0 0 -1 0 0 -1 0 0 -1 0 0]

Kmeans : [0 0 0 0 0 0 1 0 0 0 0 0 2 0 0 1 0 0 1 0 0]

[0 0 0 4 0 0 2 0 0 0 0 0 3 0 0 5 0 0 1 0 0]

[7 7 7 5 7 7 2 7 1 6 7 1 0 7 8 4 7 8 3 7 7]

[0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 1 0 0 1 0 0]

[1 1 1 3 1 1 4 1 1 5 1 1 2 1 1 0 1 1 0 1 1]

[8 8 8 4 8 0 3 8 0 5 8 8 2 8 7 6 8 7 1 8 8]