DETAILS: SERIAL VERSION OF THE CODE

DATASET: AML AND ALL DATASET WITH 7129 SAMPLES AND 34 GENES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of Clusters | Distance Metric | Silhouette Score | Time in Seconds for kmed clustering | Clock Cycles for kmed clustering | Time in seconds for silhoutte score | Clock Cycles for  Silhoutte score |
| K=2 | Manhattan | 0.032087 | 6.266486e-01 | 320844092 | 5.828503e+00 | 2984193407 |
| K=3 | Manhattan | 0.030603 | 9.896591e-01 | 506705473 | 5.180648e+00 | 2652492149 |
| K=4 | Manhattan | 0.039463 | 1.299669e+00 | 665430659 | 5.609314e+00 | 2871969128 |
| K=6 | Manhattan | 0.013255 | 2.381571e+00 | 1219364339 | 4.660488e+00 | 2386169904 |
| K=8 | Manhattan | 0.003616 | 6.055654e+00 | 3100494716 | 4.540165e+00 | 2324564603 |
| K=10 | Manhattan | 0.010874 | 9.374032e+00 | 4799504192 | 4.465045e+00 | 2286103285 |
| K=2 | Euclidean | 0.029956 | 8.275971e-01 | 423729691 | 3.468791e+00 | 1776021093 |
| K=3 | Euclidean | 0.154721 | 1.840949e+00 | 942565677 | 4.347388e+00 | 2225862866 |
| K=4 | Euclidean | 0.061187 | 3.111855e+00 | 1593269805 | 3.877138e+00 | 1985094496 |
| K=6 | Euclidean | 0.039295 | 7.070083e+00 | 3619882406 | 3.731193e+00 | 1910370677 |
| K=8 | Euclidean | 0.019372 | 1.149814e+01 | 5887046886 | 3.281543e+00 | 1680149766 |
| K=10 | Euclidean | 0.009878 | 1.715202e+01 | 8781836652 | 3.213711e+00 | 1645419938 |

DETAILS: SERIAL VERSION OF THE CODE

DATASET: A RICE GENE EXPRESSION MATRIX DATASET WITH 10K SAMPLES AND 35 GENES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of Clusters | Distance Metric | Silhouette Score | Time in Seconds for kmed clustering | Clock Cycles for kmed clustering | Time in seconds for silhoutte score | Clock Cycles for  Silhoutte score |
| K=2 | Manhattan |  |  |  |  |  |
| K=3 | Manhattan |  |  |  |  |  |
| K=4 | Manhattan |  |  |  |  |  |
| K=6 | Manhattan |  |  |  |  |  |
| K=8 | Manhattan |  |  |  |  |  |
| K=10 | Manhattan |  |  |  |  |  |
| K=2 | Euclidean |  |  |  |  |  |
| K=3 | Euclidean |  |  |  |  |  |
| K=4 | Euclidean |  |  |  |  |  |
| K=6 | Euclidean |  |  |  |  |  |
| K=8 | Euclidean |  |  |  |  |  |
| K=10 | Euclidean |  |  |  |  |  |