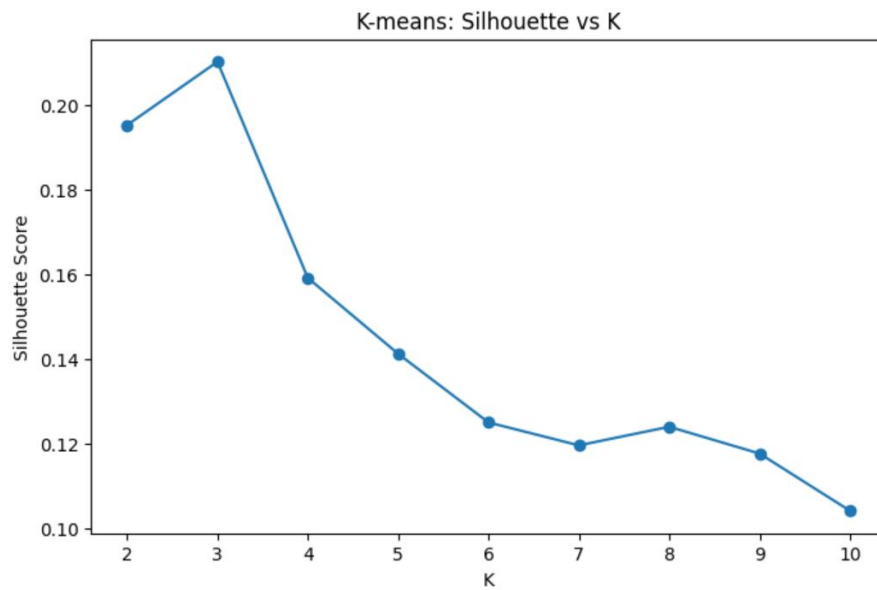


Best $n_{clusters}$ for Hierarchical Clustering: 3
 Silhouette Score (hierarchical): 0.198



Best K for K-means: 3
Silhouette Score (K-means): 0.210
Number of components to reach 90% variance: 9
Explained variance ratio of each selected PC: [0.29335185 0.1743311 0.12862545 0.1001115 0.08608002 0.04540679
0.04275095 0.02919059 0.02550342]

