Clustering Results Report

1. Number of Clusters Formed:

A total of 4 clusters were identified in the dataset.

2. Cluster Distribution:

o Cluster 0: 37 data points

o Cluster 1: 44 data points

o Cluster 2: 58 data points

o Cluster 3: 60 data points

3. Clustering Metrics:

o Silhouette Score: 0.4153

This indicates a moderate level of separation and cohesion among the clusters. Values closer to 1 represent well-separated clusters.

o Davies-Bouldin Index (DBI): 0.7946

A lower DBI value suggests better clustering quality, with this value indicating relatively compact and well-separated clusters.

4. Visualization:

The clustering results were visualized using PCA components to project the data into a 2D space, as shown in the scatter plot. Each color in the plot represents a distinct cluster, reflecting the separability of the clusters.