Customer Segmentation Clustering Results

Number of Clusters Formed

• 8 Clusters were formed based on the analysis.

Davies-Bouldin Index

• Final DB Index: 0.8916 (Lower values indicate better clustering quality.)

Silhouette Score

• Final Silhouette Score: 0.4013 (Ranges from -1 to 1, with higher values indicating well-separated clusters.)

Cluster Insights

- 1. Cluster Size Distribution:
 - o Visualized using a bar chart, showing the number of customers per cluster.
- 2. Cluster Visualization:
 - 2D PCA Plot: Displays clusters reduced to two dimensions using PCA for interpretability.
 - 3D PCA Plot: Provides an additional perspective on the cluster separation in three dimensions.

Final DB Index: 0.8916423498121121
Final Silhouette Score: 0.4012627899999537
Number of Clusters Formed: 8