Clustering part by Atharva Shetty

Clustering Metrics:

Number of Clusters Formed: 4 (based on the PCA results and cluster validation)

• Davies-Bouldin Index: 0.0814

A lower value indicates that the clusters are well-separated and compact.

• WCSS: 0.83

• Silhouette Score: 0.9433

The silhouette score measures how similar each point is to its own cluster compared to other clusters. A higher score indicates better-defined clusters.

Calinski-Harabasz Score: 11640.67

This score assesses the dispersion of clusters. A higher score generally suggests well-separated and well-formed clusters.

