

Clustering part by Atharva Shetty

Clustering Metrics:

- **Number of Clusters Formed:** 4 (based on the PCA results and cluster validation)
- **Davies-Bouldin Index:** 0.0815

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

- **Silhouette Score:** 0.6254

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:** 845.65

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

