A report on clustering results

• Number of Clusters Formed:

 The clustering process created 3 clusters as specified in the KMeans configuration.

• Davies-Bouldin Index (DB Index):

- o The DB Index is **1.4223**.
- A lower DB Index indicates better-defined clusters. An index closer to 0 suggests the clusters are compact and well-separated. While this value isn't perfect, it suggests the clusters have some overlap or less distinct boundaries.

• Silhouette Score:

- The Silhouette Score is **0.2227**.
- o The score ranges from -1 to 1:
 - A score close to 1 indicates well-separated clusters.
 - A score near 0 suggests overlapping or poorly separated clusters.
 - A negative score indicates incorrect cluster assignment.
- A score of 0.2227 suggests weakly defined clusters, possibly indicating the need to test alternative cluster counts or refine features.

• Customer Cluster Assignments:

• Each customer is assigned to one of the 3 clusters. A preview is shown for the first 5 customers, with cluster IDs (0, 1, or 2).