

Customer Segmentation Analysis Report

Clustering Results

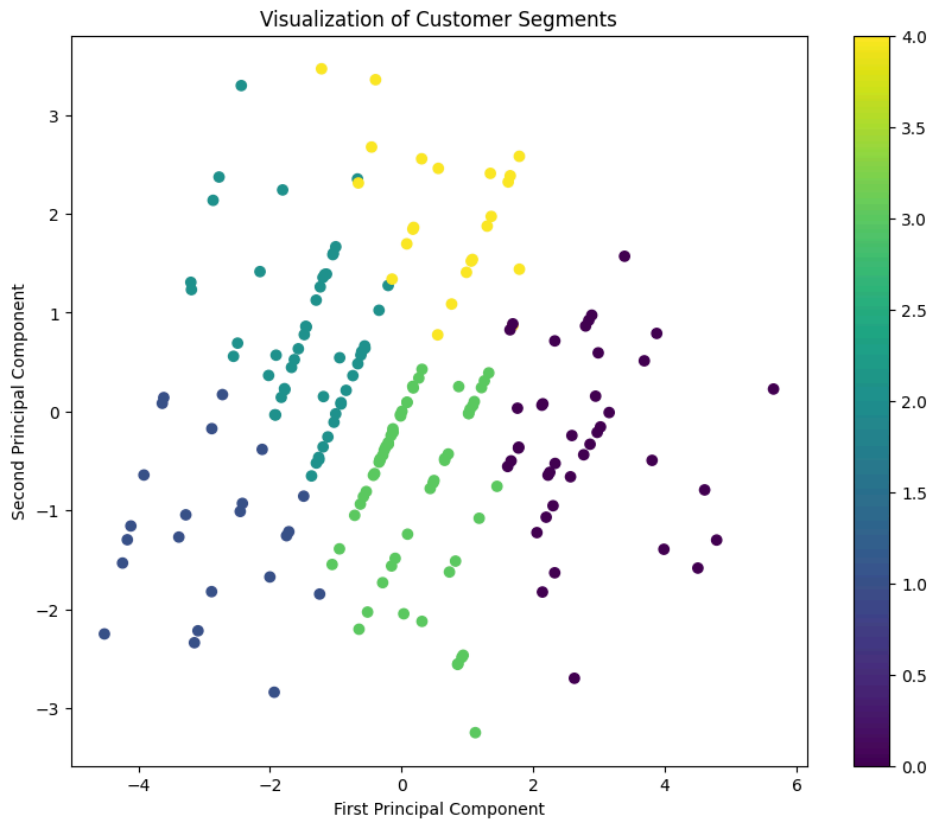
- Number of clusters formed: 5
- Davies-Bouldin Index: 1.0226
- Silhouette Score: 0.3522

Cluster Characteristics

	Total_Spend	Transaction_Count	Unique_Products
0	2189.1	3.15	3.07
1	4627.04	4.36	4.18
2	5900.71	7.91	7.53
3	780.78	2.35	2.35
4	3344.05	5.78	5.75

https://docs.google.com/spreadsheets/d/10dDHV7ZByFyx5y2ODJbj300Bv-lh6j8pe1KBqBp_VBU/edit?usp=sharing

Visual Analysis



Key Findings:

- Cluster 2: High-value customers (avg. spend \$5,900, ~8 transactions)
- Cluster 1: Mid-high value customers (avg. spend \$4,627, ~4 transactions)
- Cluster 4: Low-value customers (avg. spend \$780, ~2 transactions)
- Clusters 0 and 3: Moderate value customers with varying transaction patterns

The DB Index of 1.0226 indicates reasonably well-separated clusters, while the Silhouette score of 0.3522 suggests moderate cluster cohesion.

Would you like to explore any specific aspect of these segments in more detail or proceed with a different analysis?