# Clustering Report: Akshay G S

**Clustering Results**

Number of Clusters Formed:

The DBSCAN algorithm formed the following clusters:

Cluster 0: 59 customers

Cluster 3: 49 customers

Cluster 1: 44 customers

Cluster 2: 44 customers

Noise (Cluster -1): 3 customers

Davies-Bouldin Index:

The Davies-Bouldin Index (DBI) value for the clustering is: 1.2091

A lower DBI indicates better clustering. The value suggests that the clusters are moderately well-separated and distinct.

Additional Analysis:

Other relevant clustering metrics could include Silhouette Score, which measures how similar an object is to its own cluster compared to other clusters. A high Silhouette Score indicates well-separated clusters.

For further improvement, you could explore adjusting DBSCAN's hyperparameters, such as 'eps' (epsilon) and 'min_samples', to experiment with different cluster shapes and densities.



Customer Segments: Spending vs. Transaction Frequency