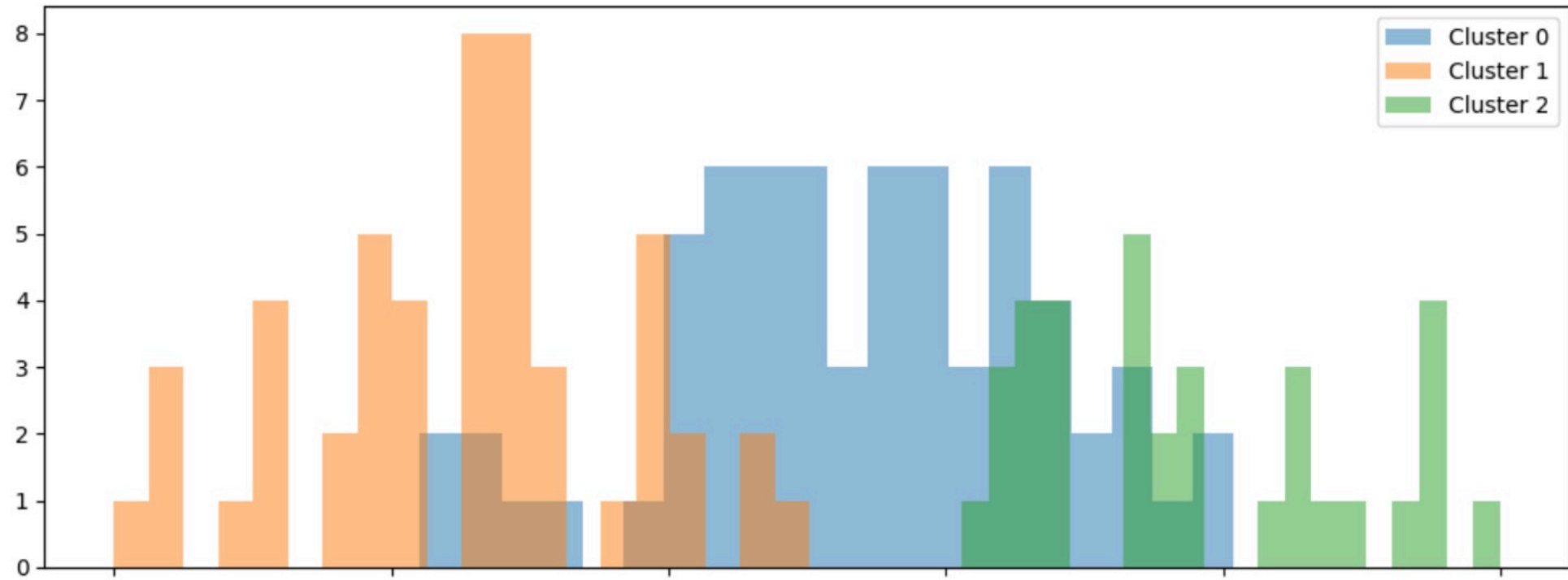
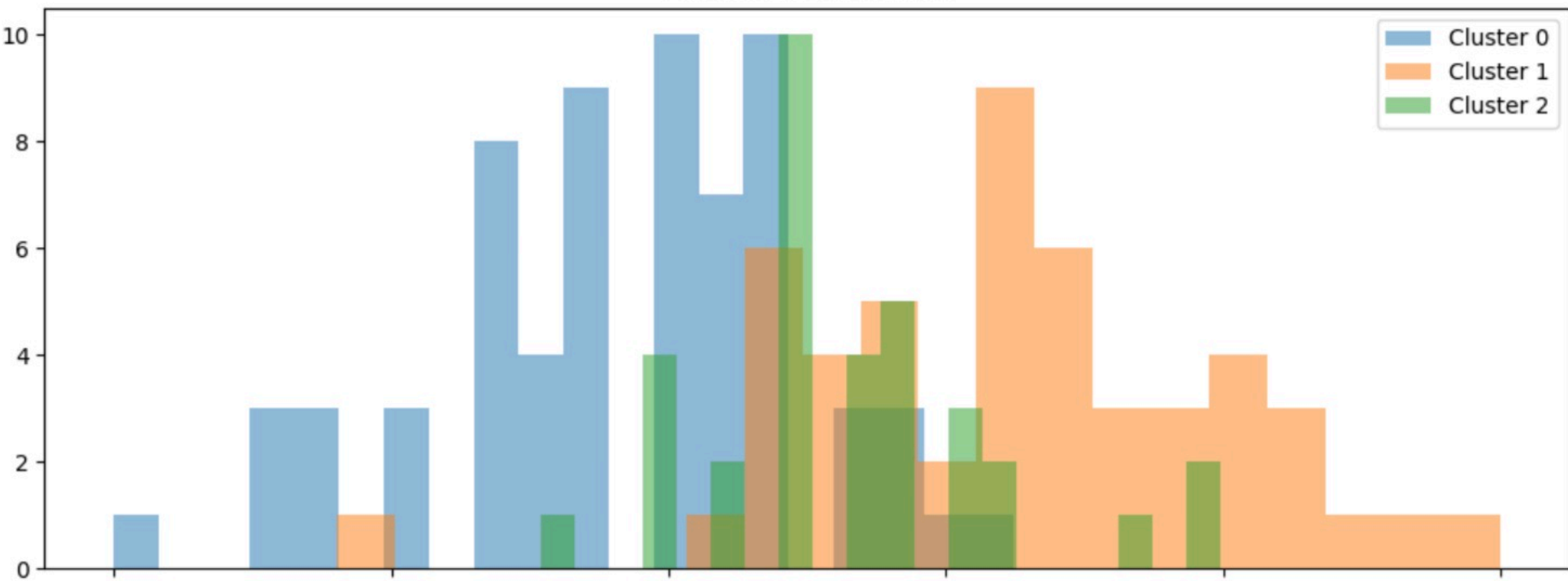


Distribution - Hierarchical Clustering - Using T+N - 3 clusters

Feature 1 Distribution

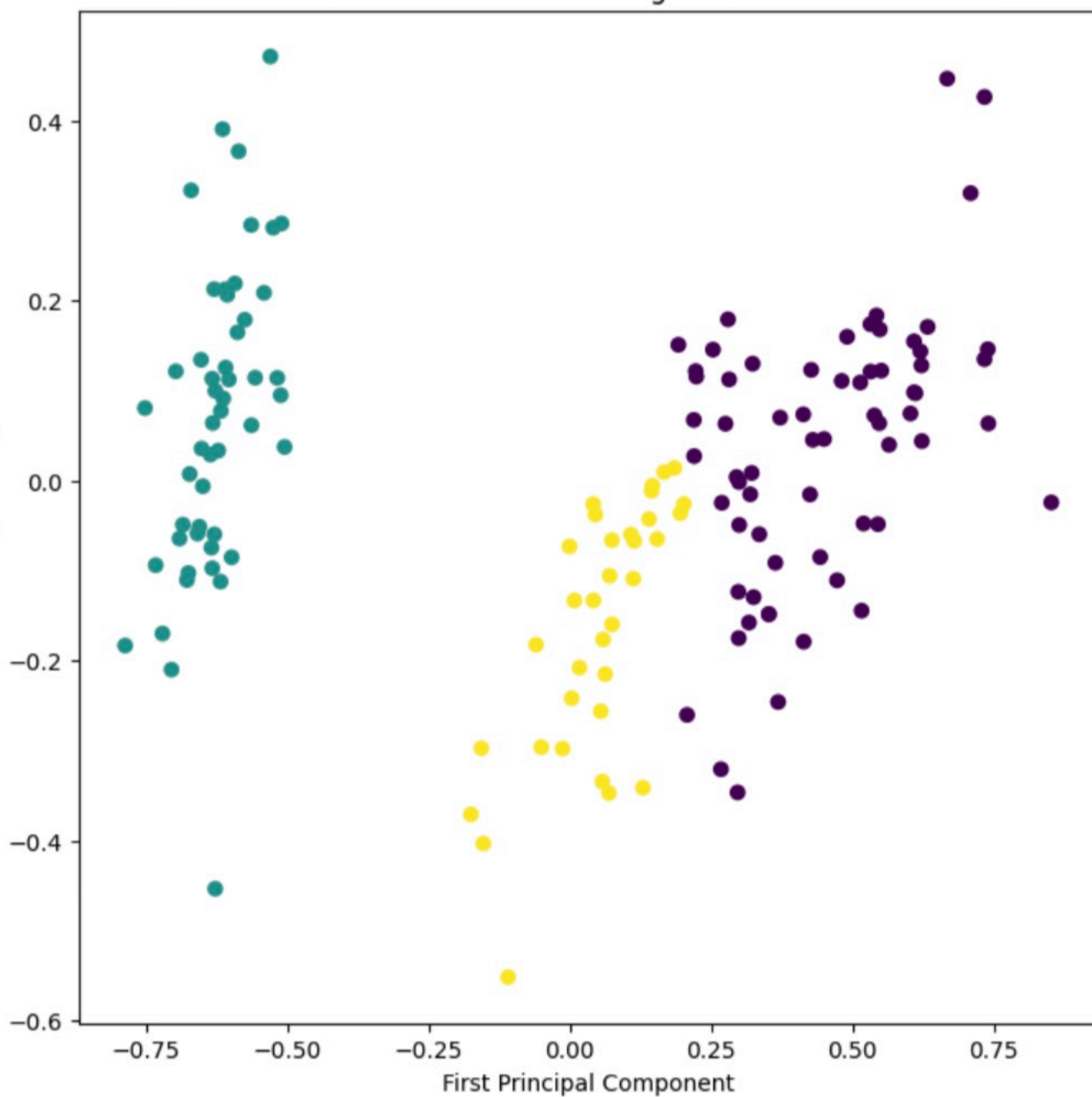


Feature 2 Distribution

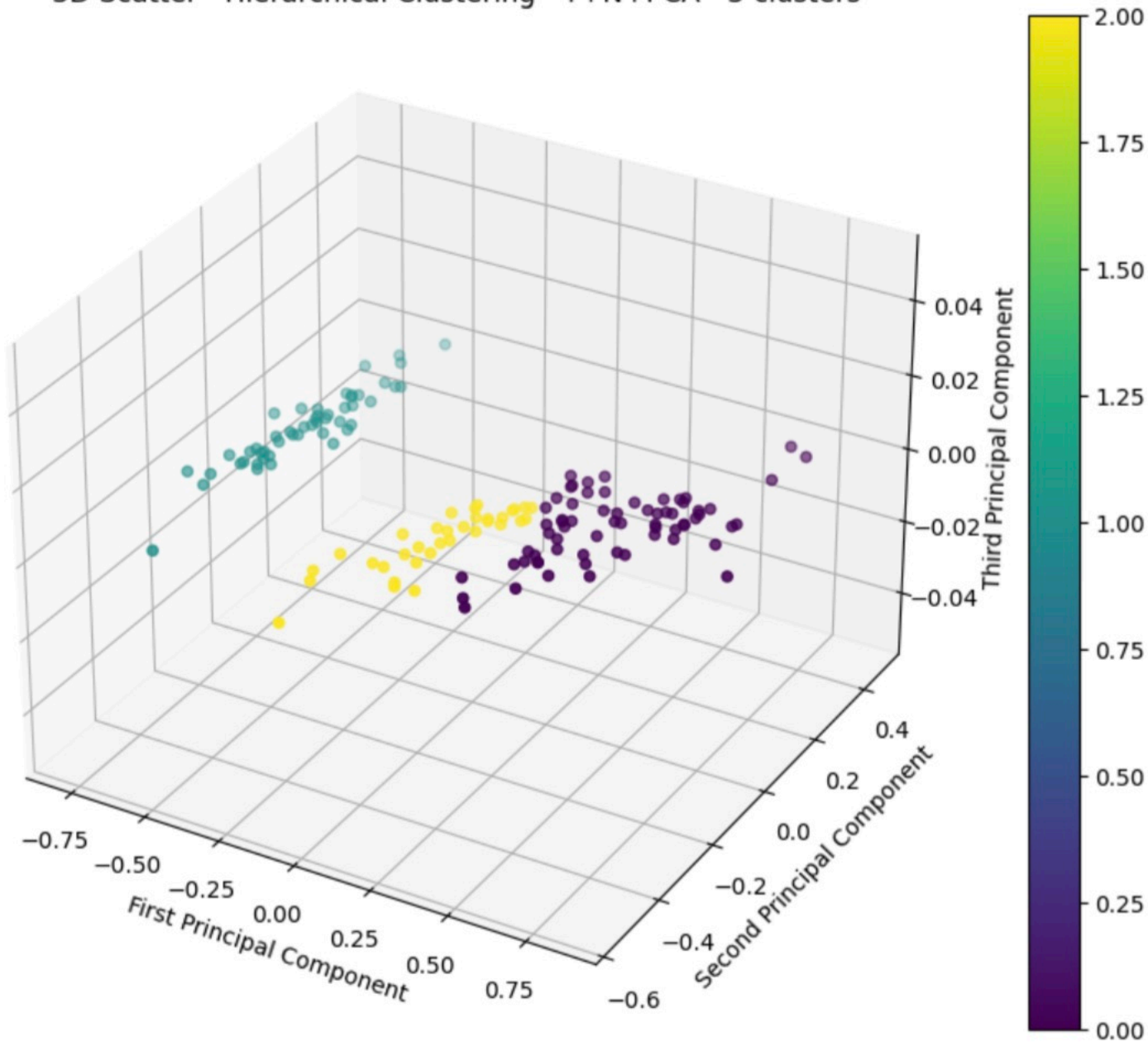


2D Scatter - Hierarchical Clustering - T+N+PCA - 3 clusters

Second Principal Component



3D Scatter - Hierarchical Clustering - T+N+PCA - 3 clusters



Silhouette - Hierarchical Clustering - T+N+PCA - 3 clusters

Cluster Label

2

1

0

-0.4

-0.2

0.0

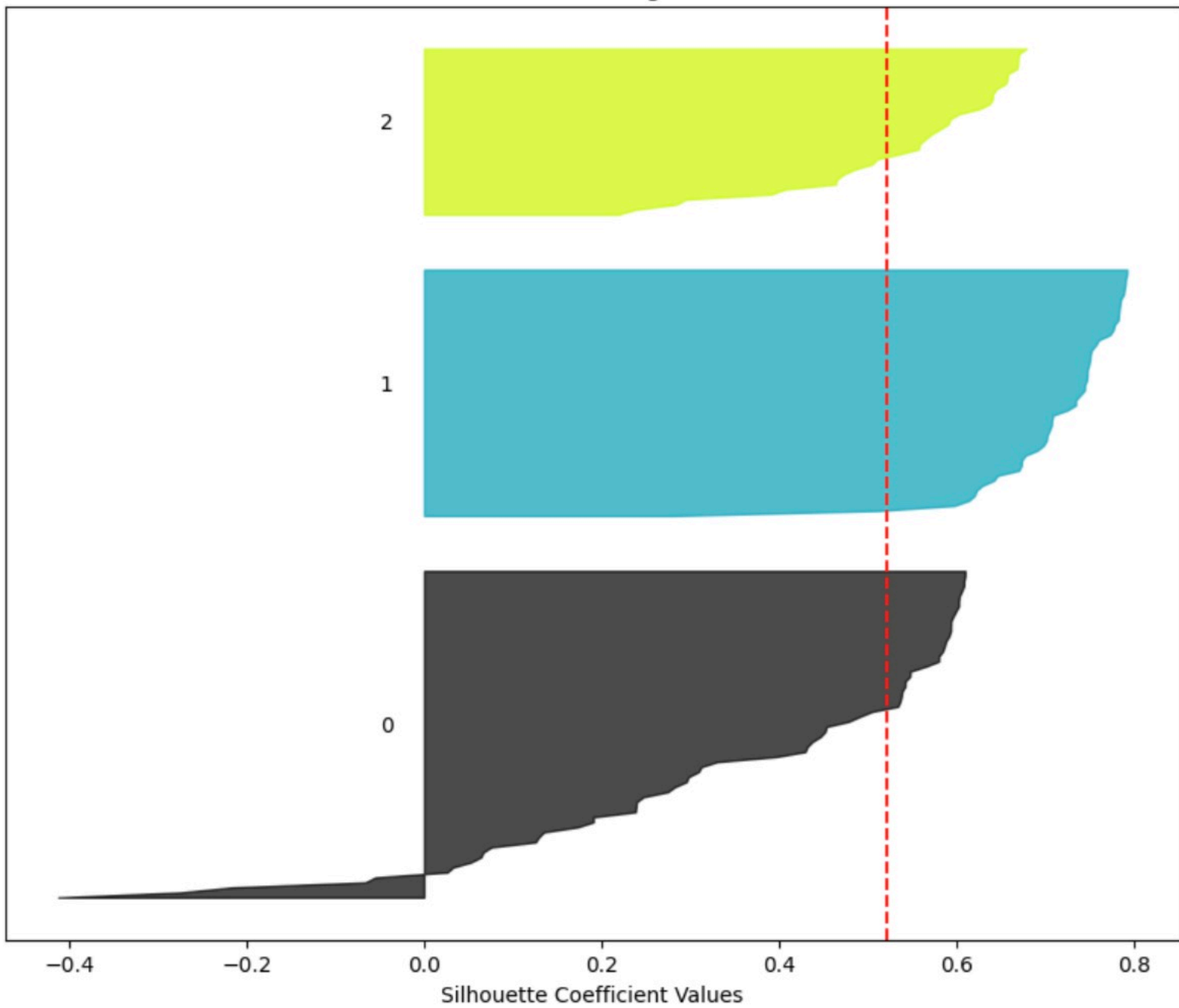
0.2

0.4

0.6

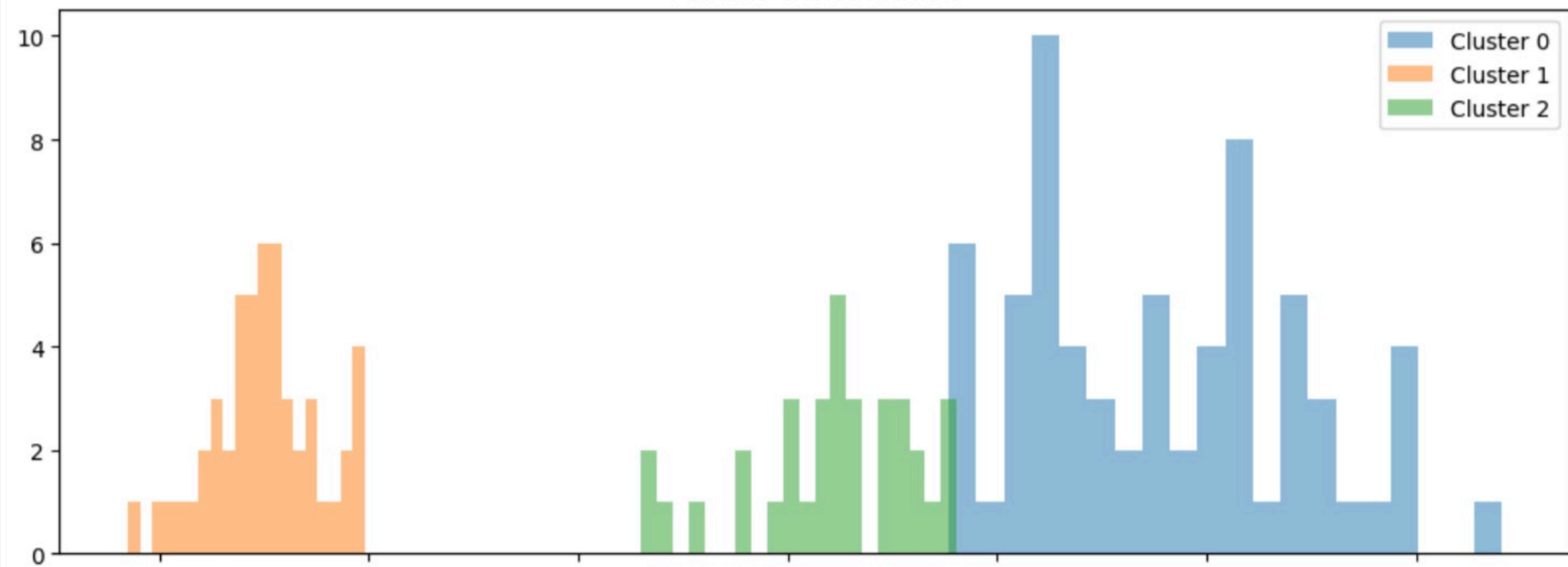
0.8

Silhouette Coefficient Values

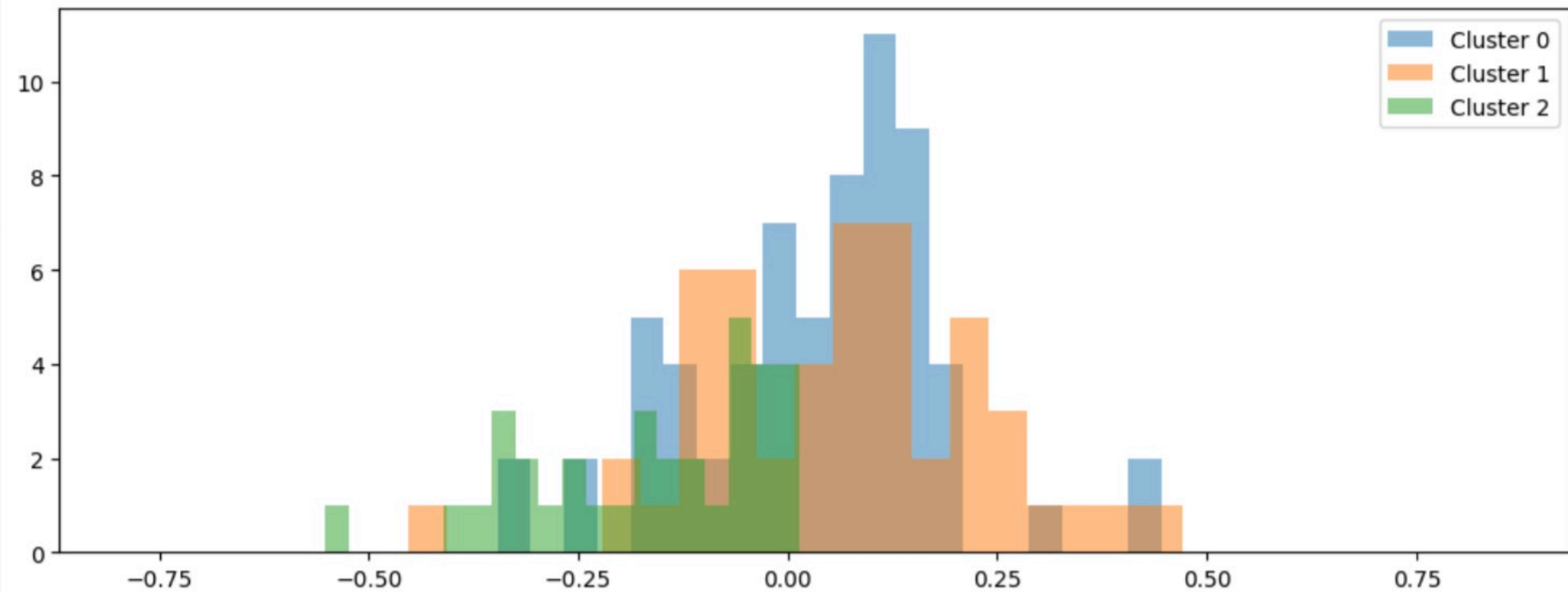


# Distribution - Hierarchical Clustering - T+N+PCA - 3 clusters

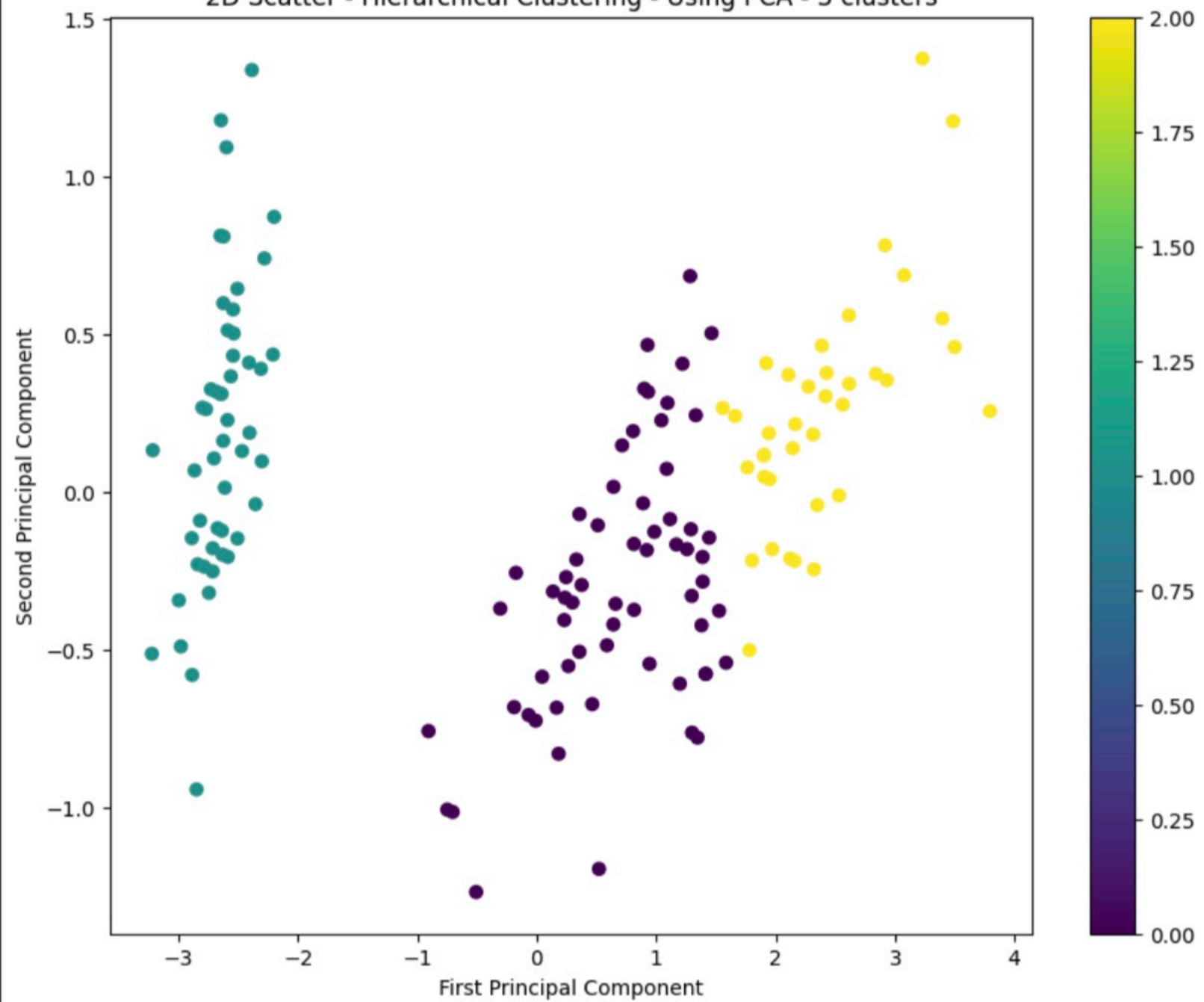
## Feature 1 Distribution



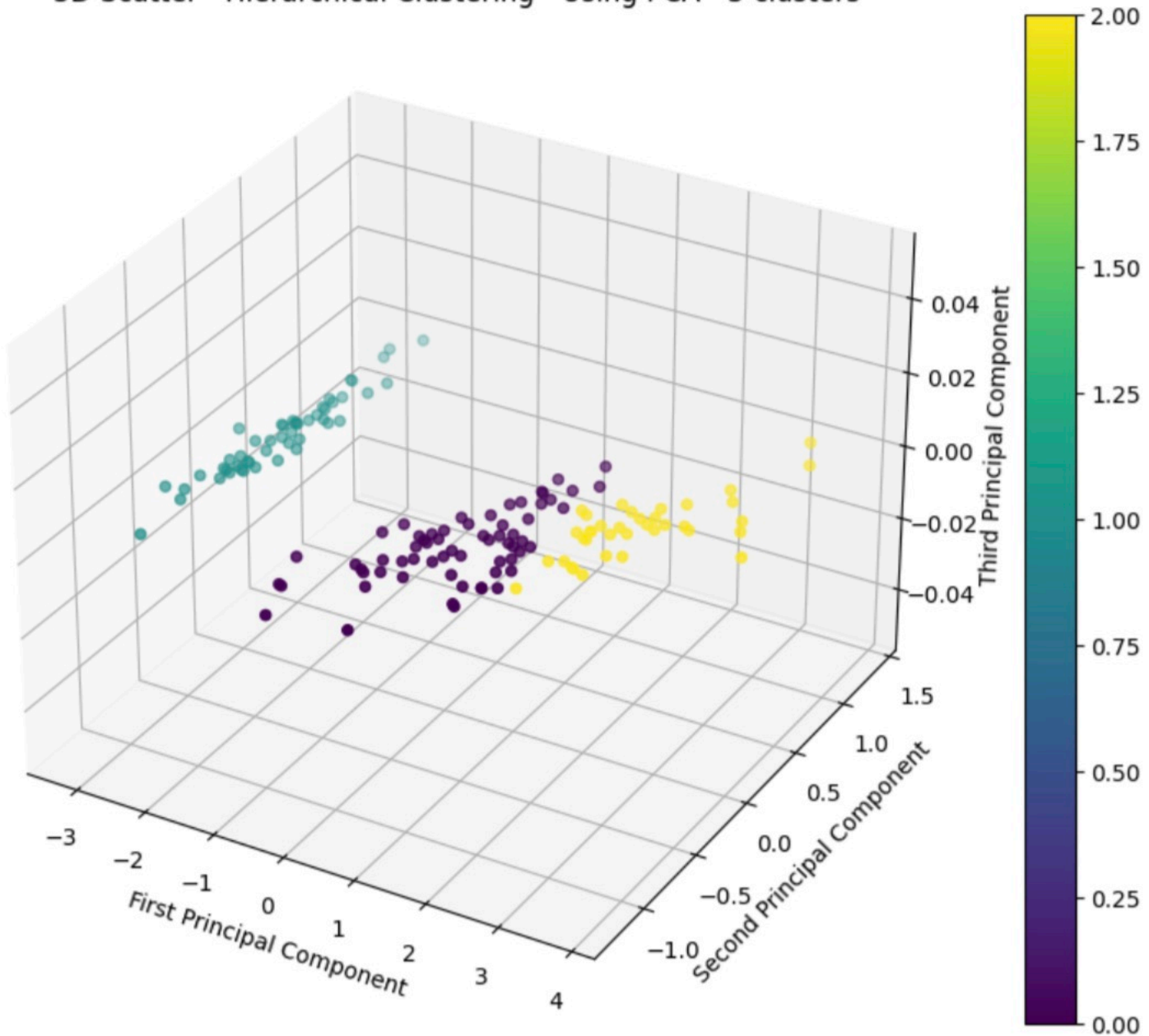
## Feature 2 Distribution



2D Scatter - Hierarchical Clustering - Using PCA - 3 clusters



3D Scatter - Hierarchical Clustering - Using PCA - 3 clusters



Silhouette - Hierarchical Clustering - Using PCA - 3 clusters

Cluster Label

2

1

0

0.0

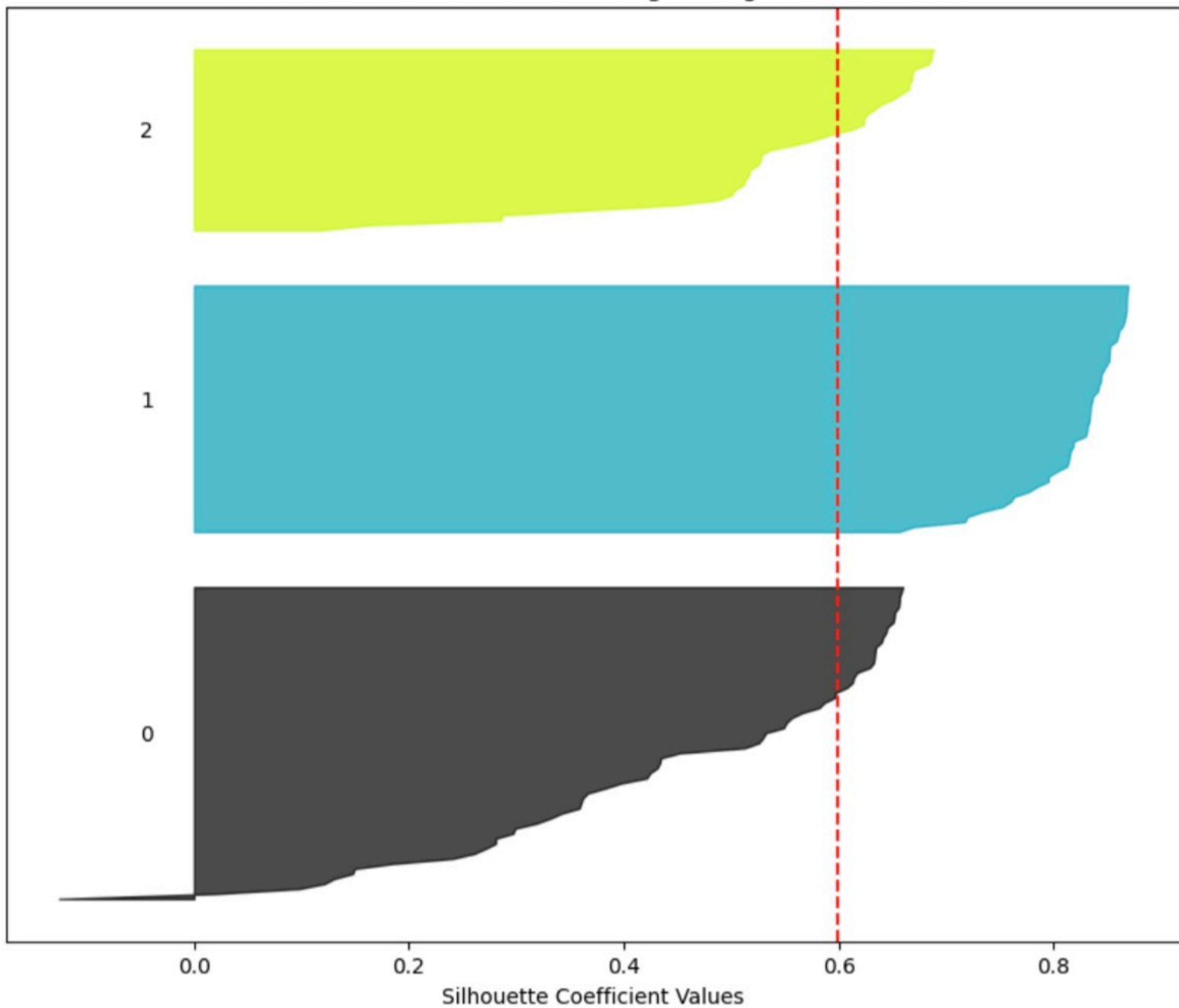
0.2

0.4

0.6

0.8

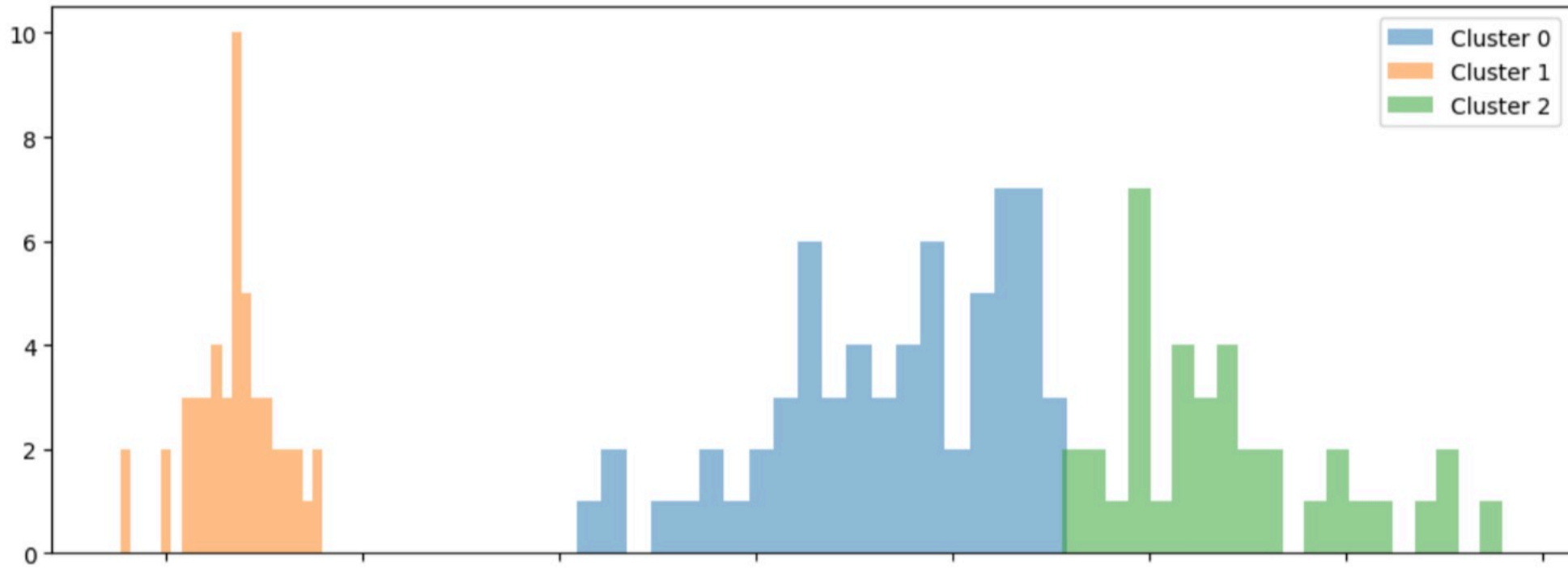
Silhouette Coefficient Values



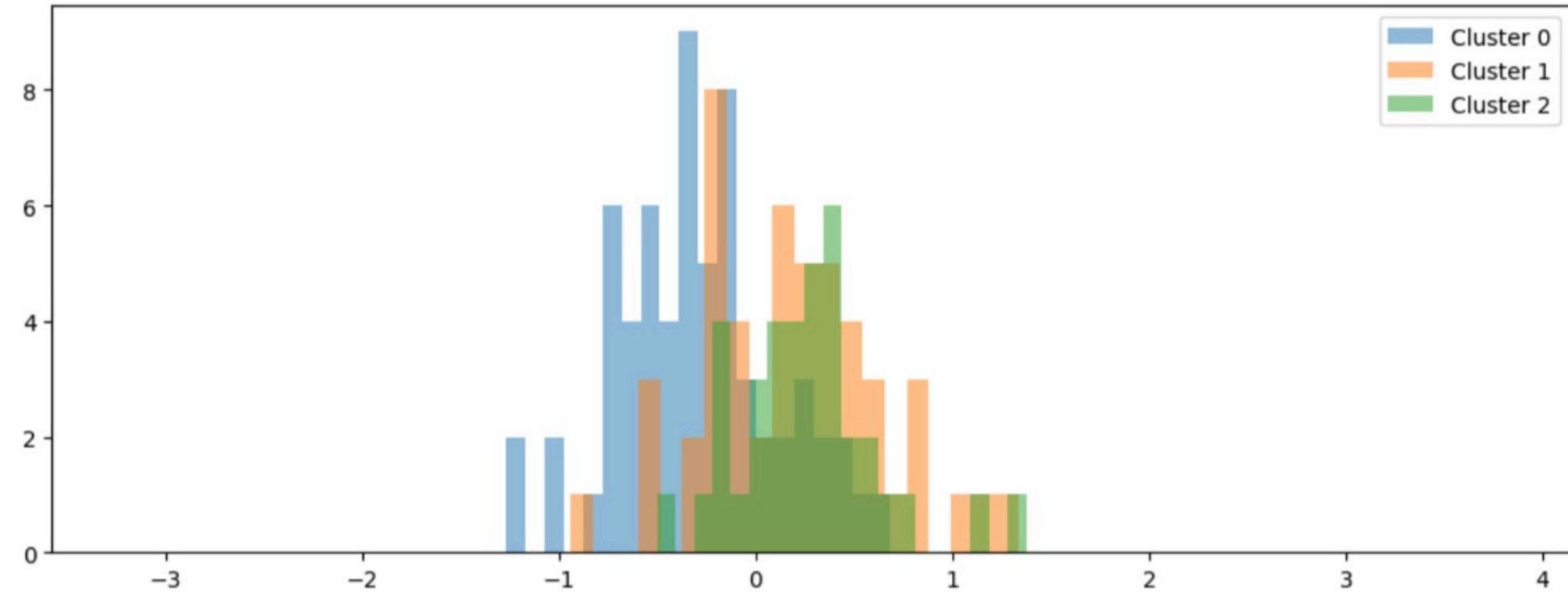


# Distribution - Hierarchical Clustering - Using PCA - 3 clusters

## Feature 1 Distribution

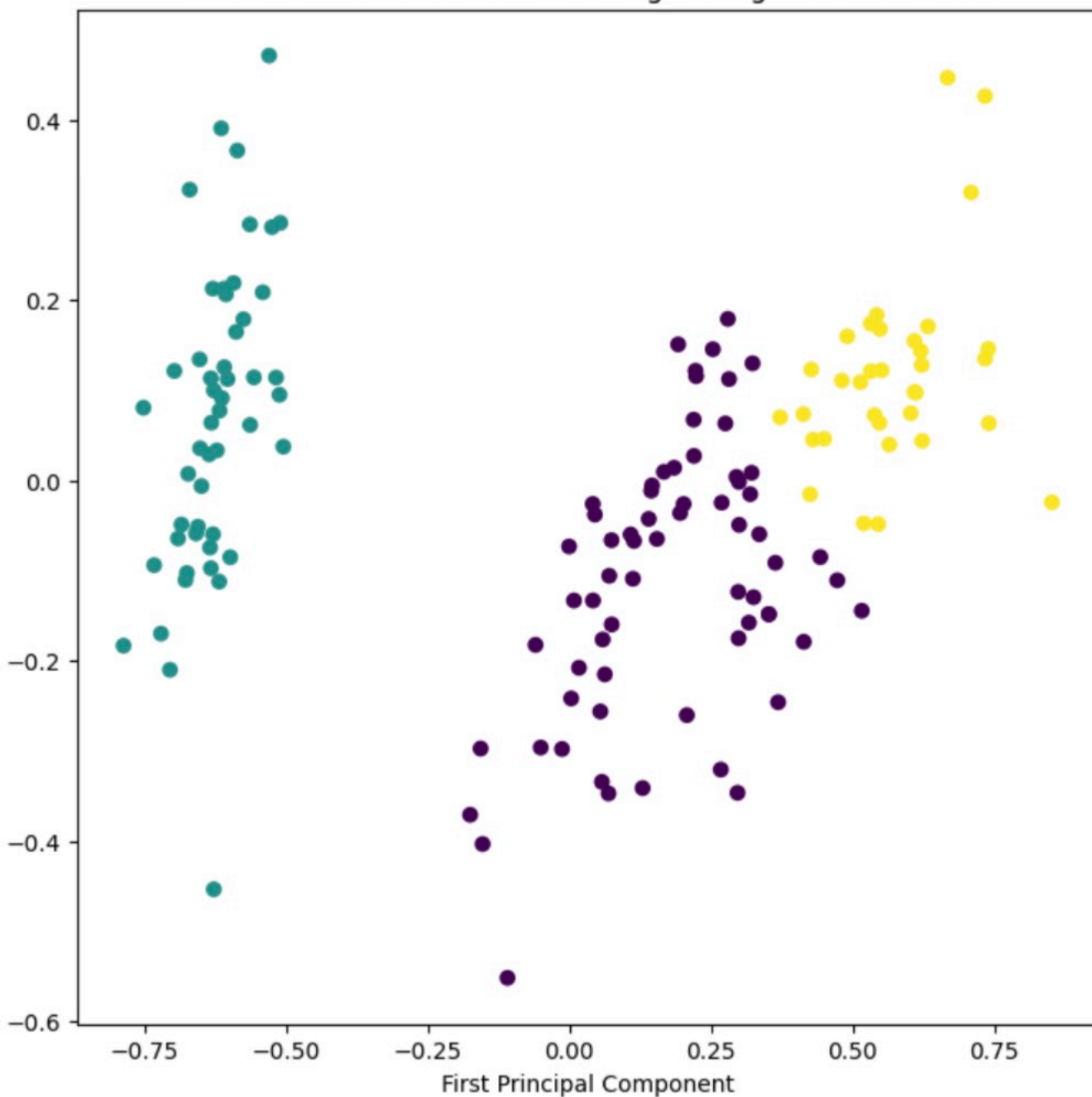


## Feature 2 Distribution



2D Scatter - Hierarchical Clustering - Using T+N - 3 clusters

Second Principal Component



2.00

1.75

1.50

1.25

1.00

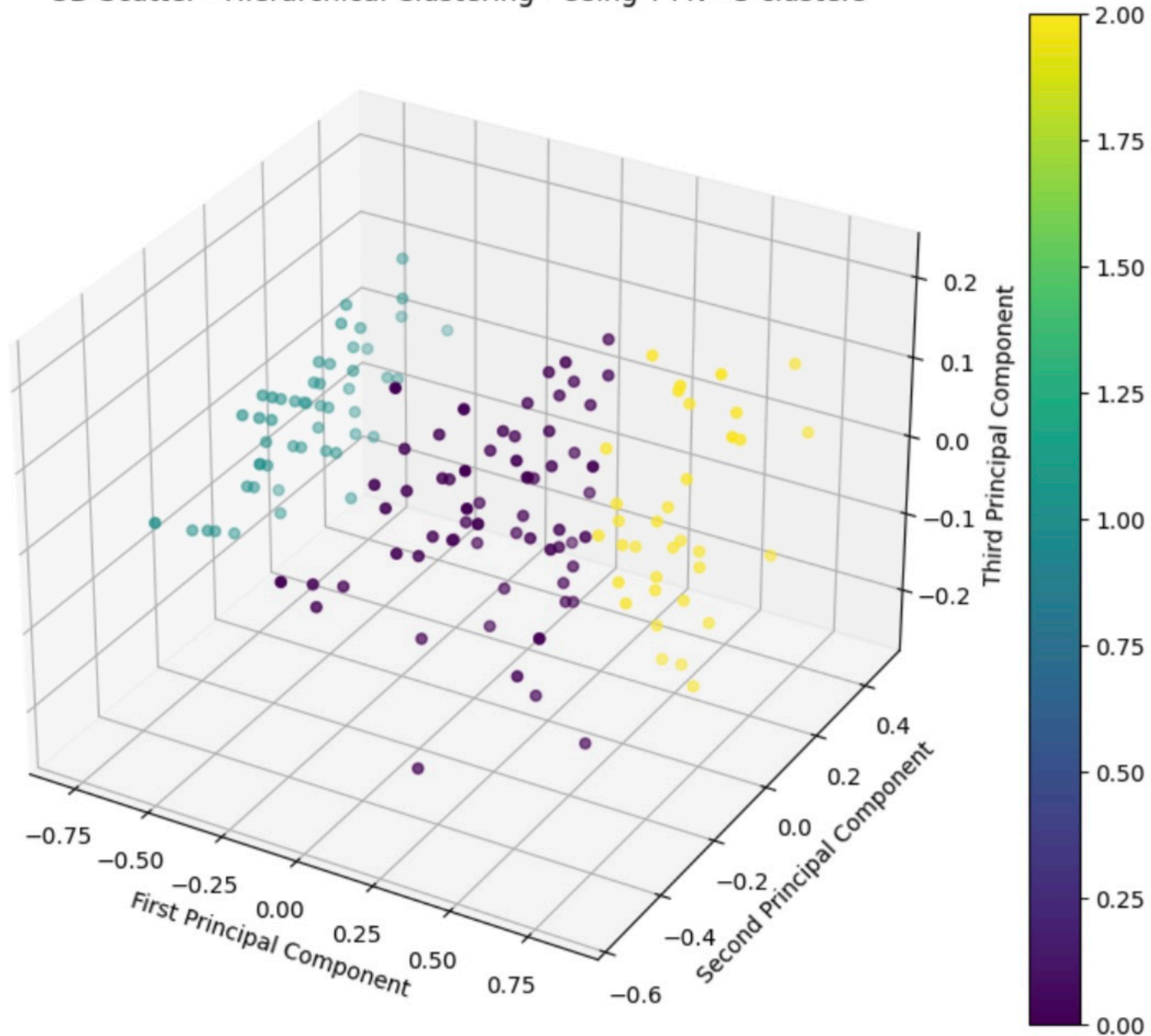
0.75

0.50

0.25

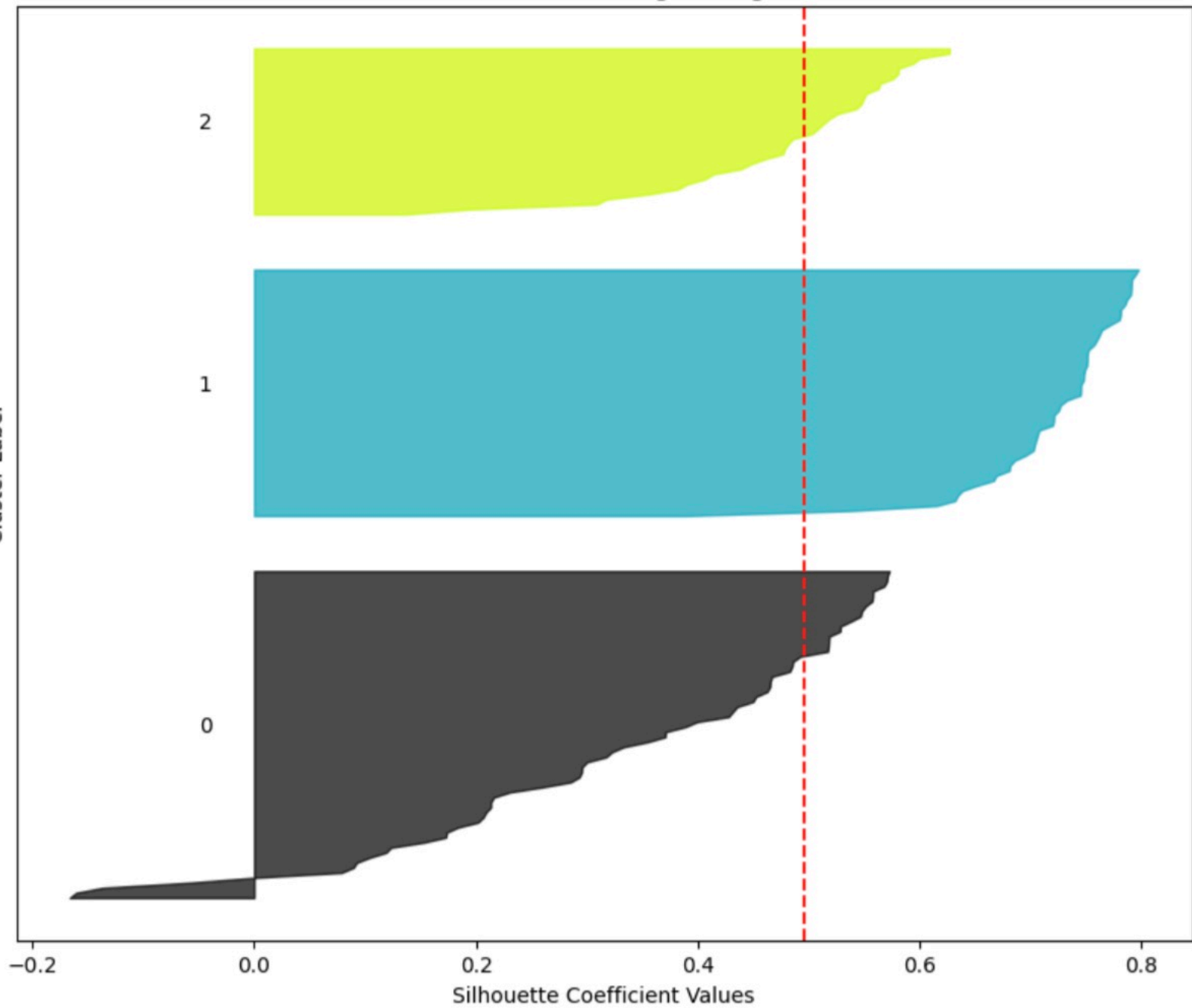
0.00

3D Scatter - Hierarchical Clustering - Using T+N - 3 clusters

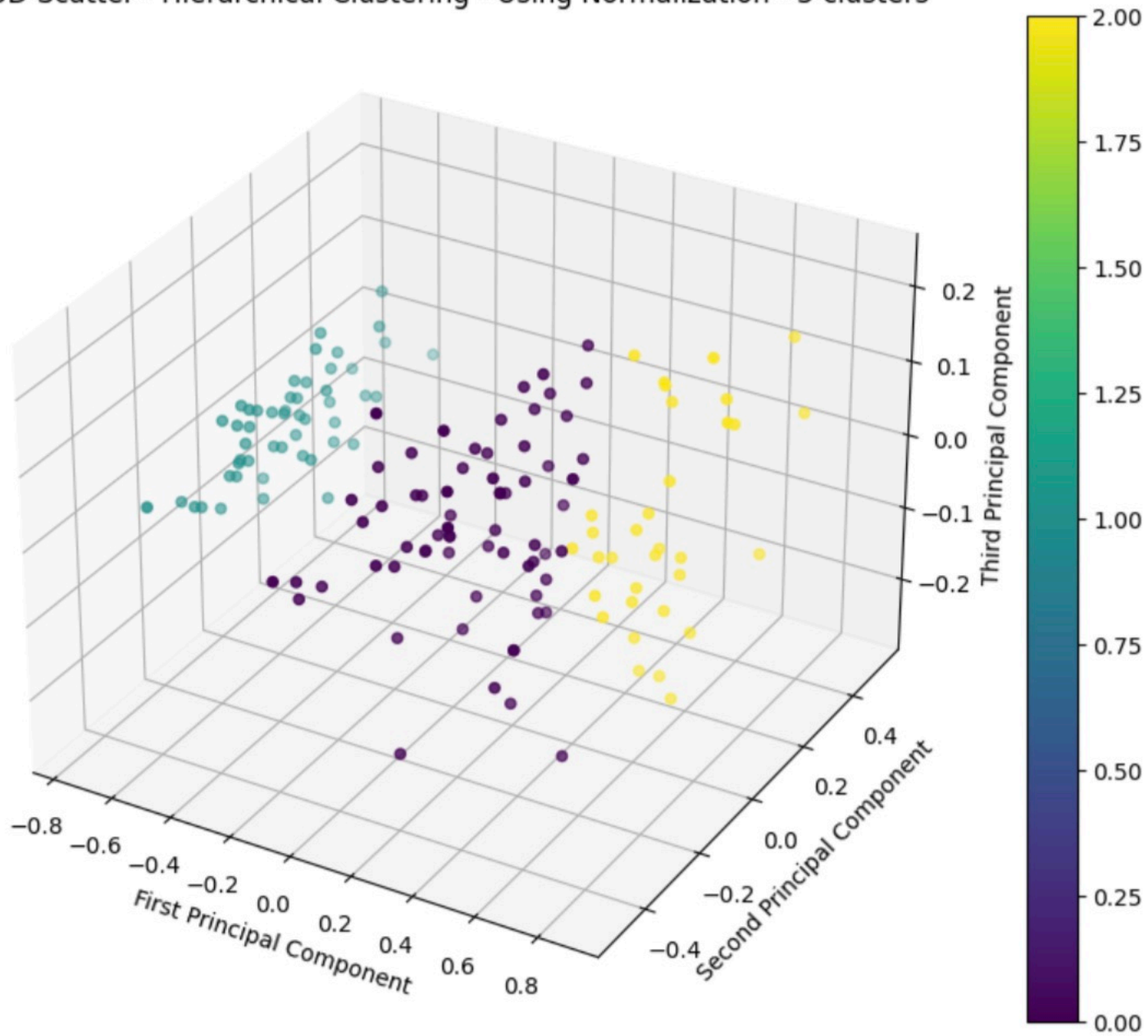


Silhouette - Hierarchical Clustering - Using T+N - 3 clusters

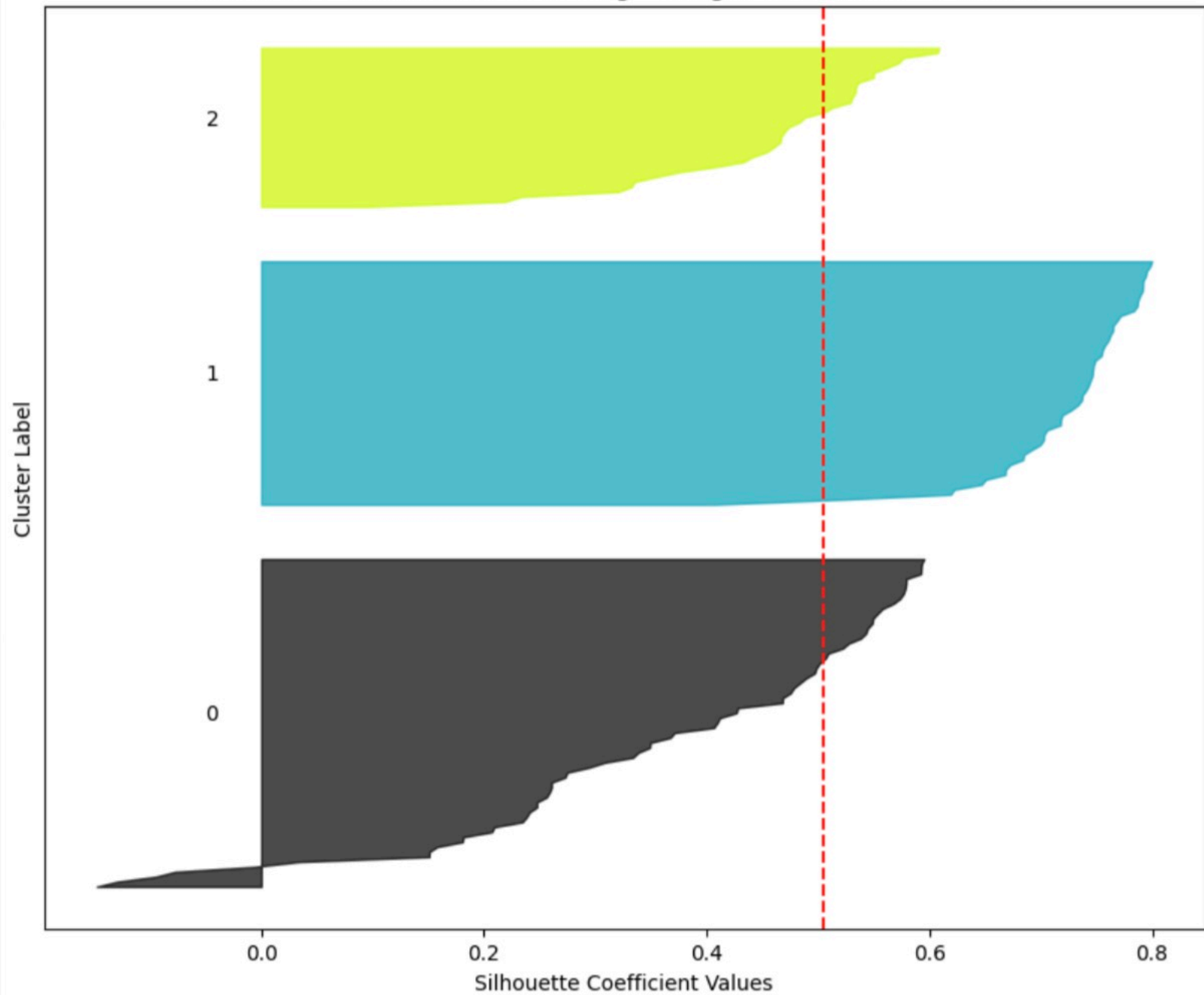
Cluster Label



3D Scatter - Hierarchical Clustering - Using Normalization - 3 clusters

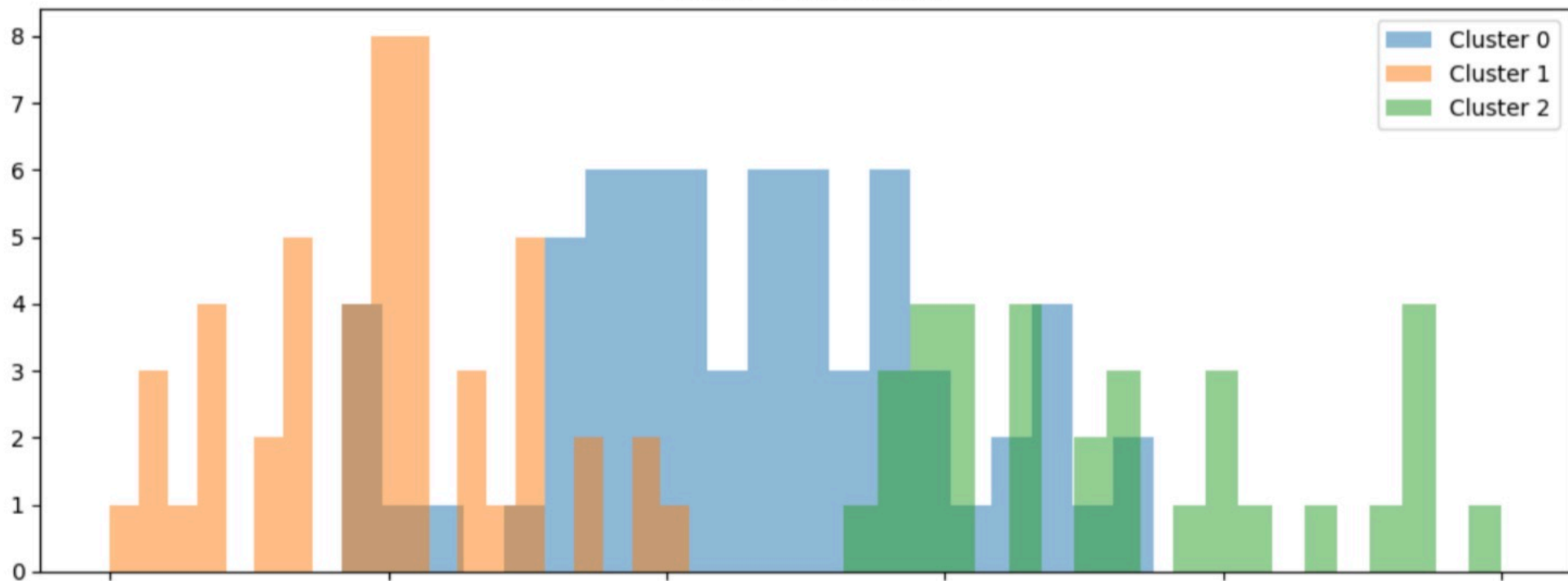


Silhouette - Hierarchical Clustering - Using Normalization - 3 clusters

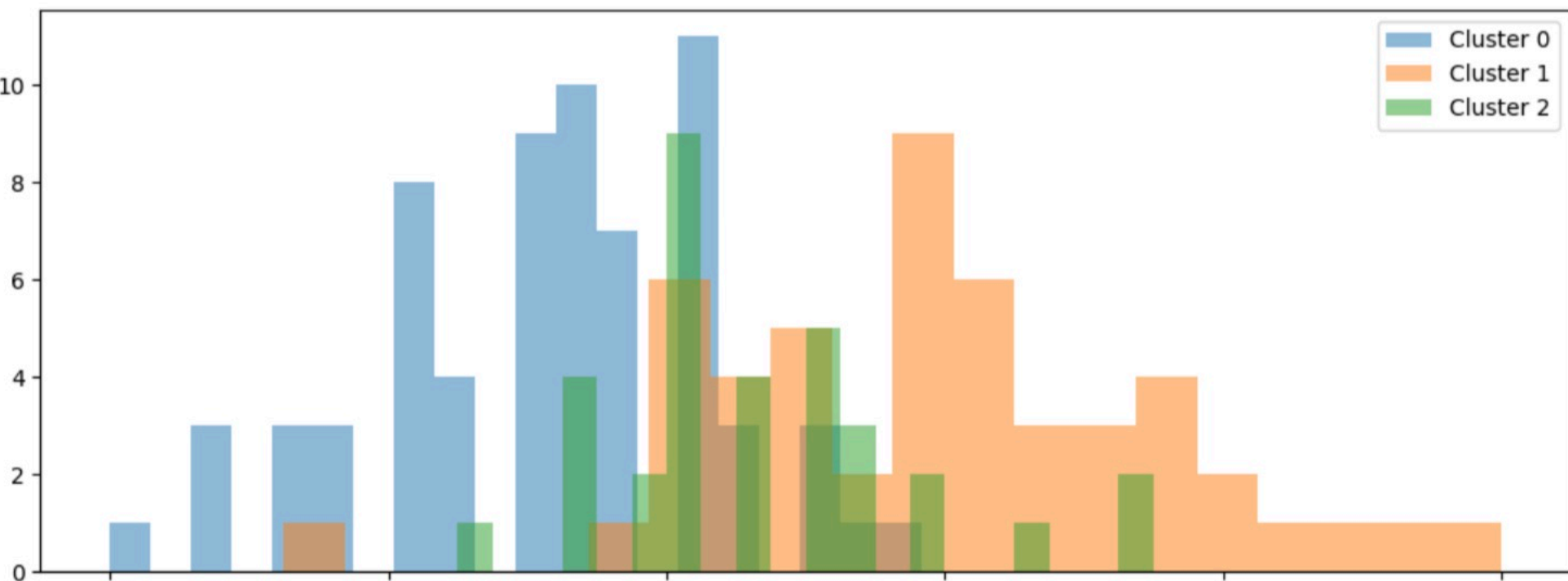


# Distribution - Hierarchical Clustering - Using Normalization - 3 clusters

## Feature 1 Distribution

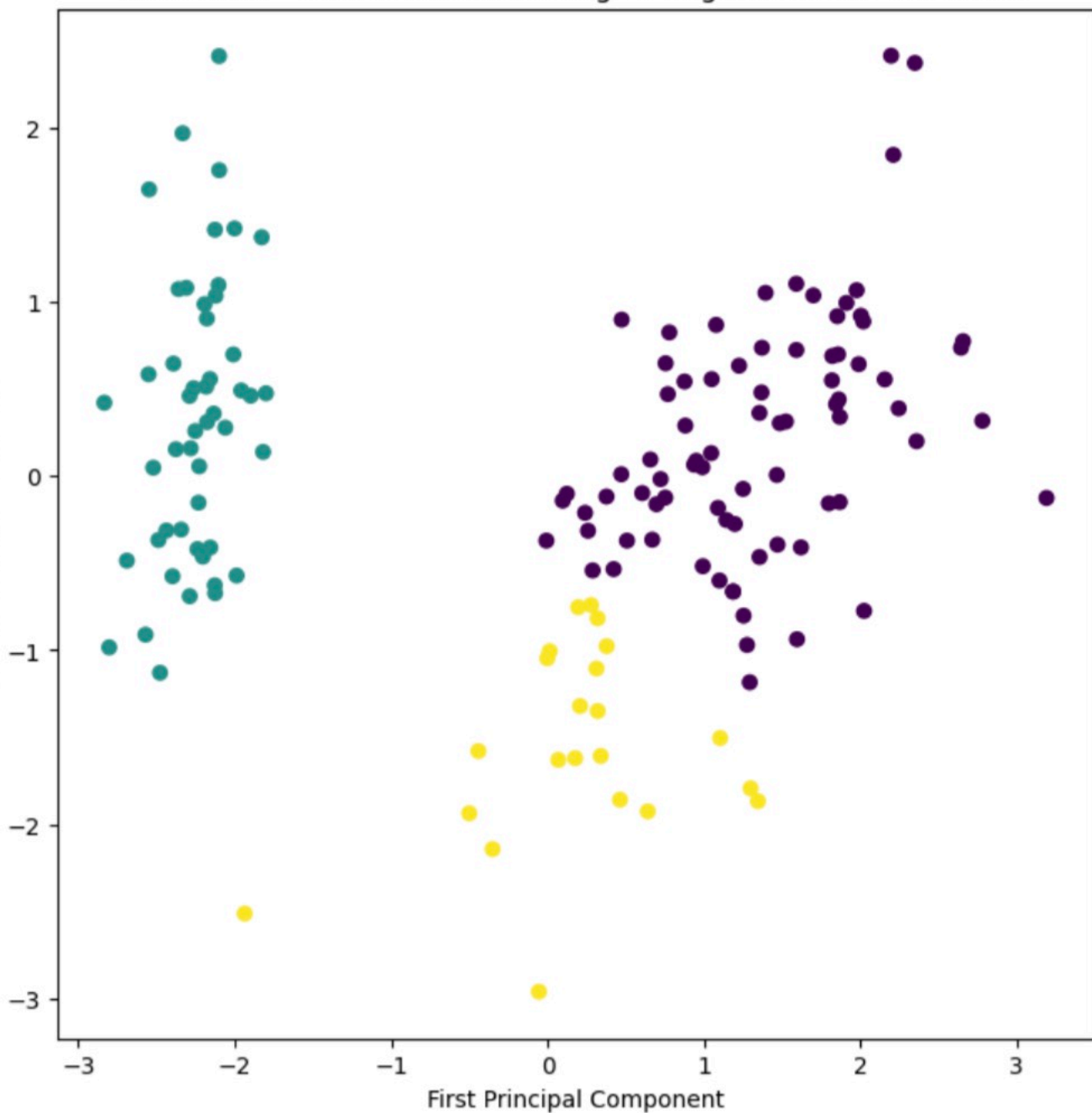


## Feature 2 Distribution



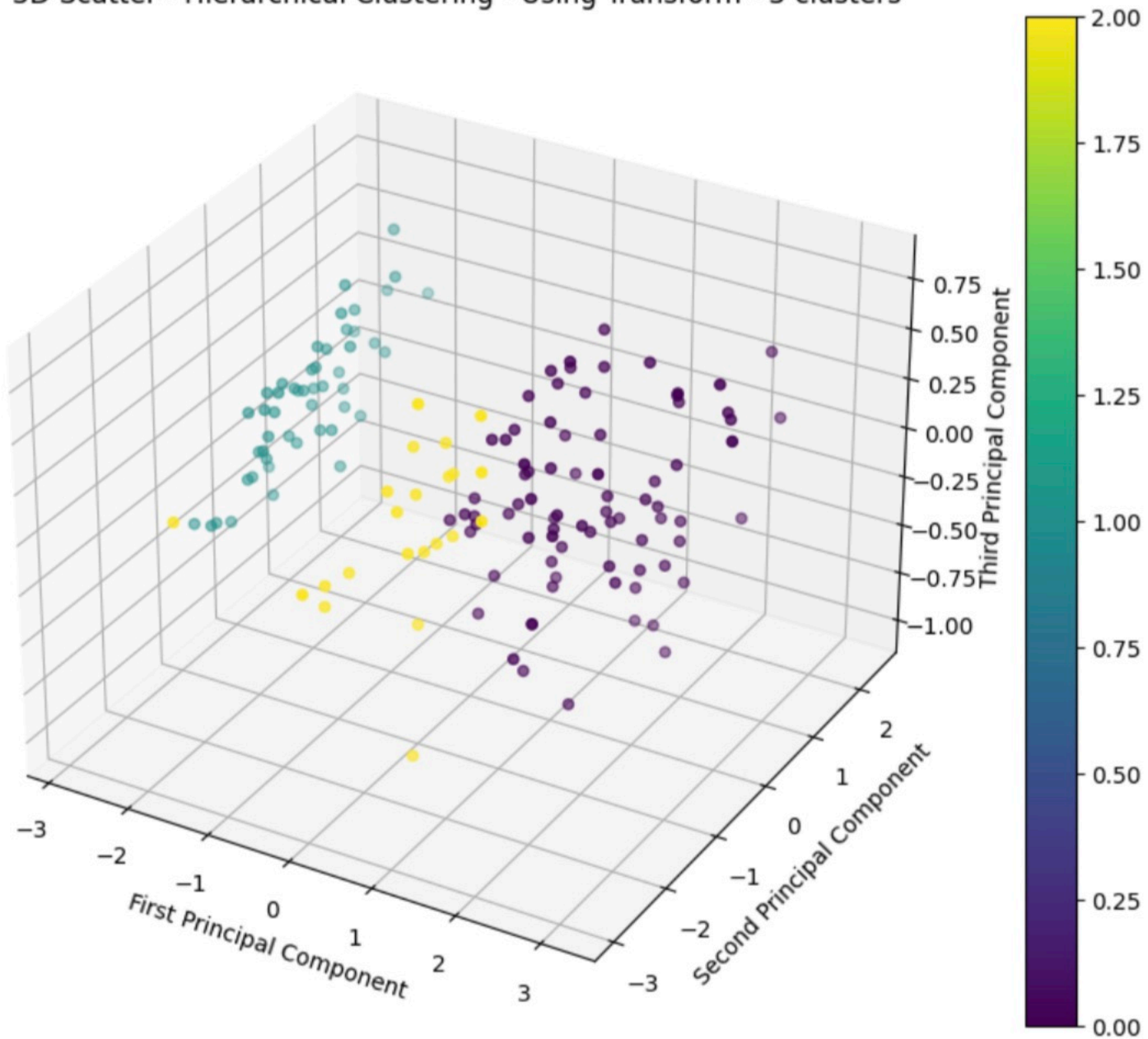
2D Scatter - Hierarchical Clustering - Using Transform - 3 clusters

Second Principal Component

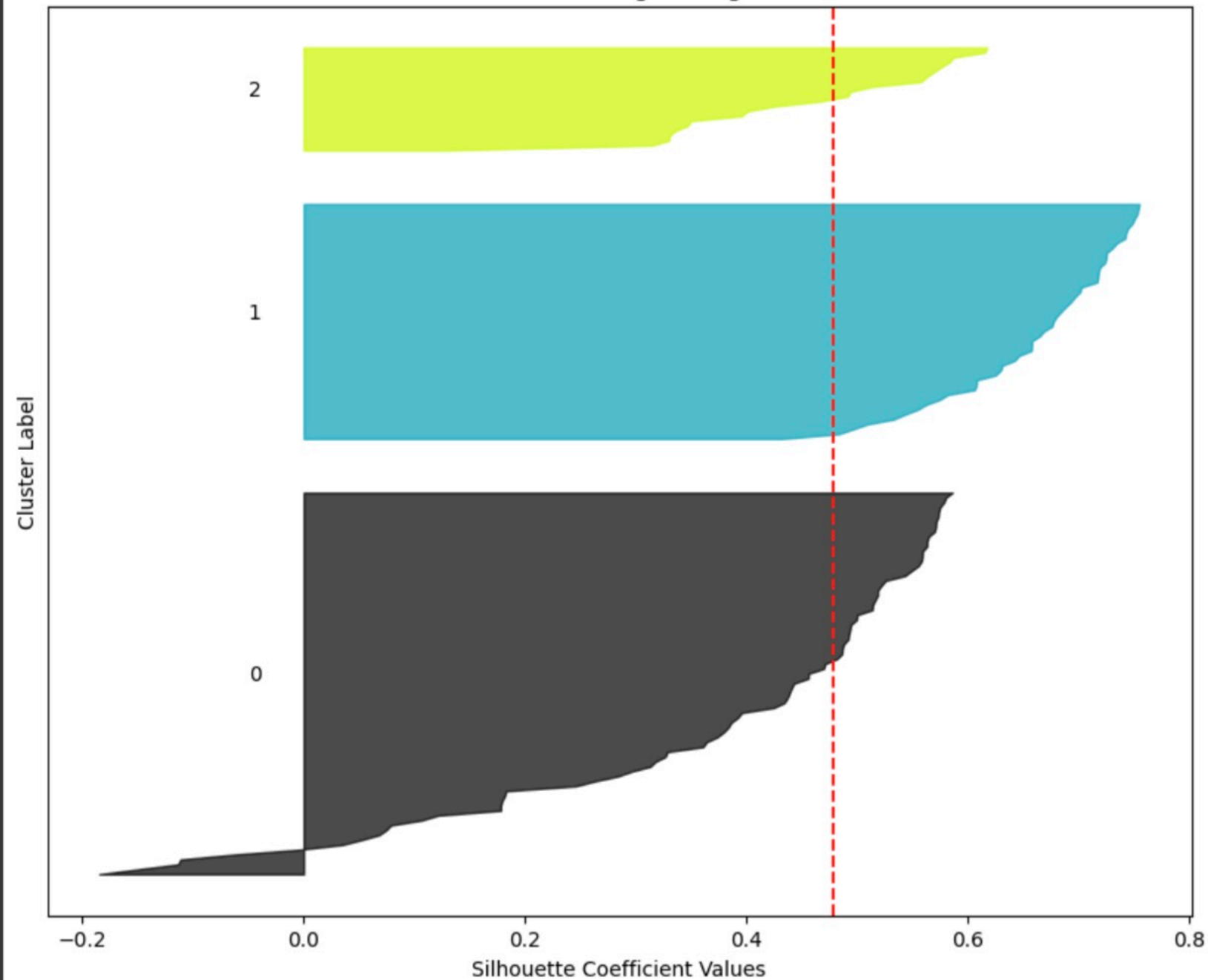




3D Scatter - Hierarchical Clustering - Using Transform - 3 clusters

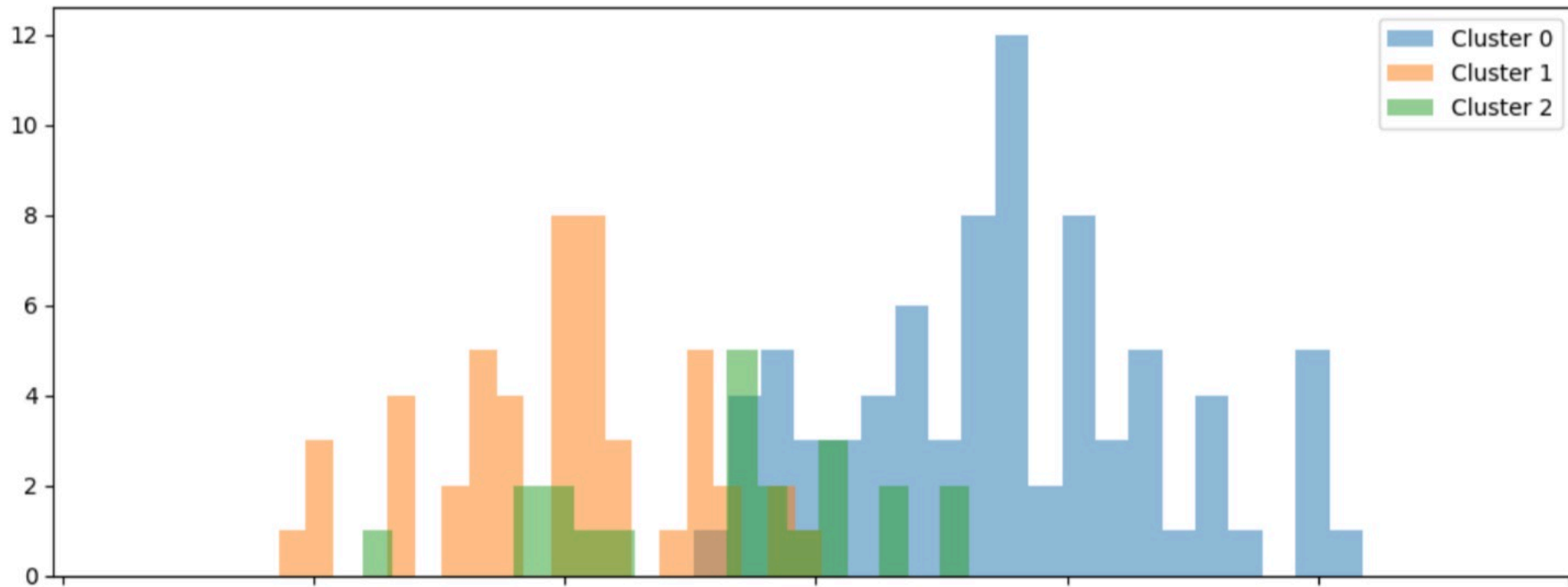


Silhouette - Hierarchical Clustering - Using Transform - 3 clusters

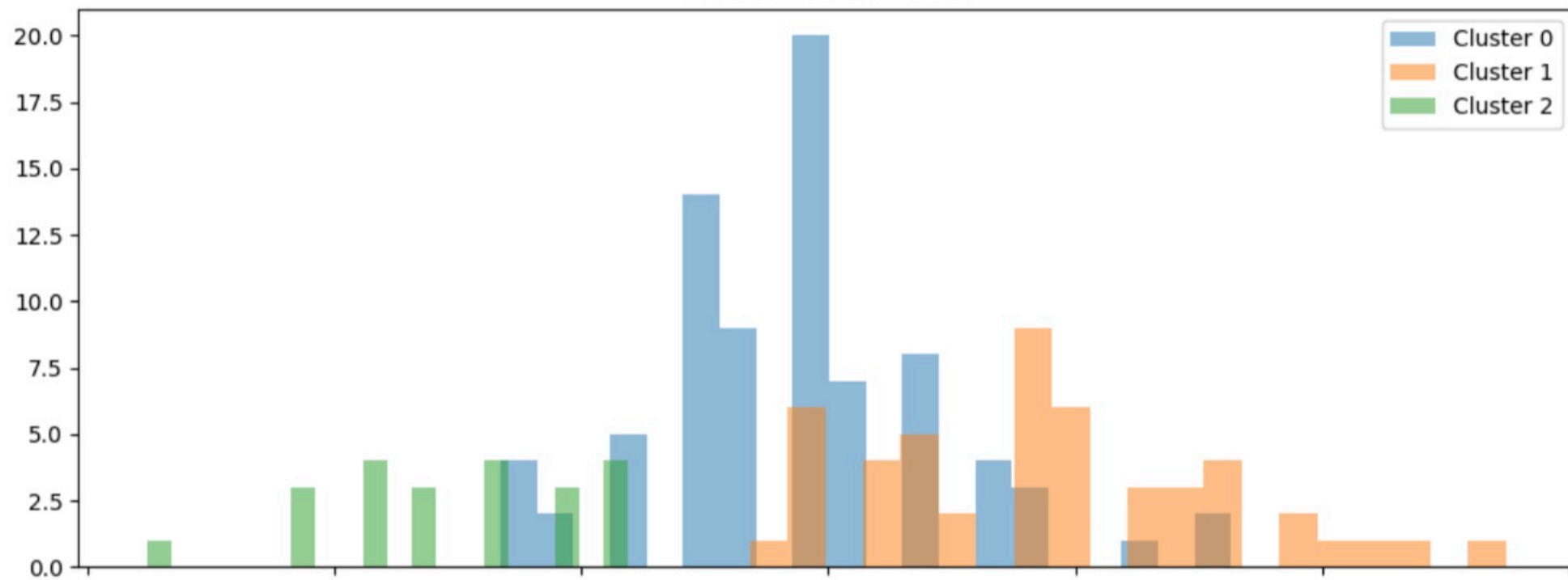


# Distribution - Hierarchical Clustering - Using Transform - 3 clusters

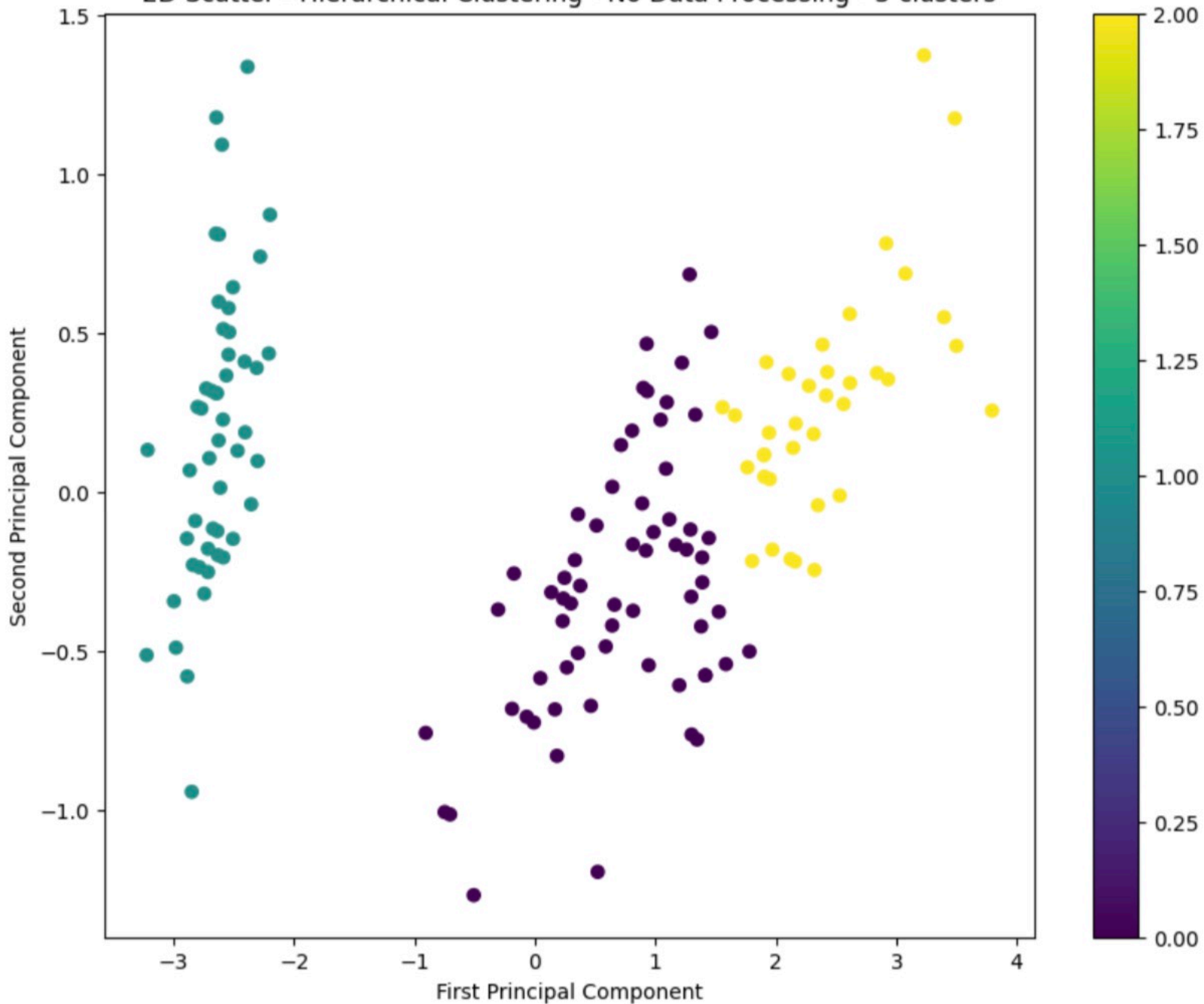
## Feature 1 Distribution



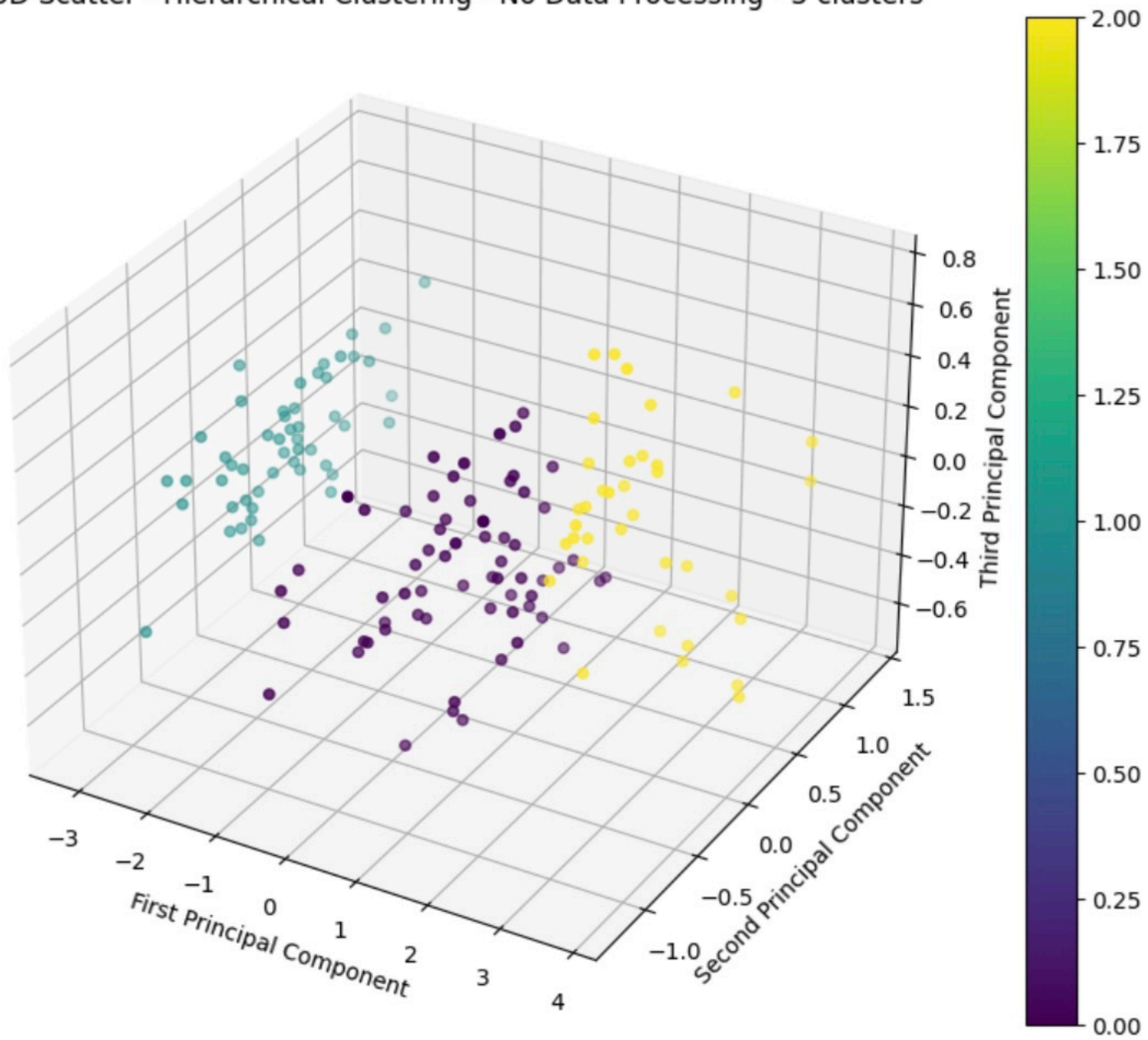
## Feature 2 Distribution



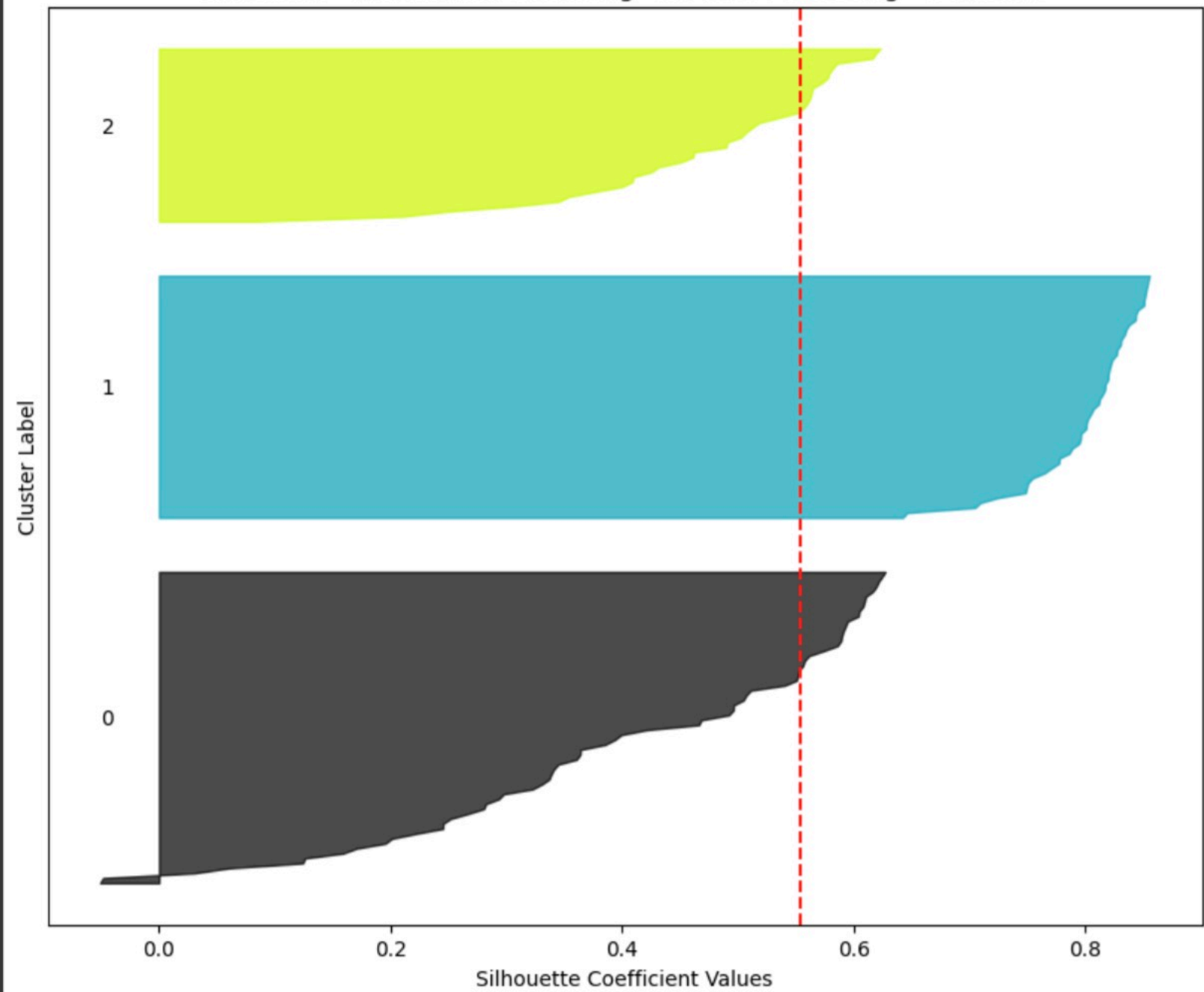
2D Scatter - Hierarchical Clustering - No Data Processing - 3 clusters



3D Scatter - Hierarchical Clustering - No Data Processing - 3 clusters

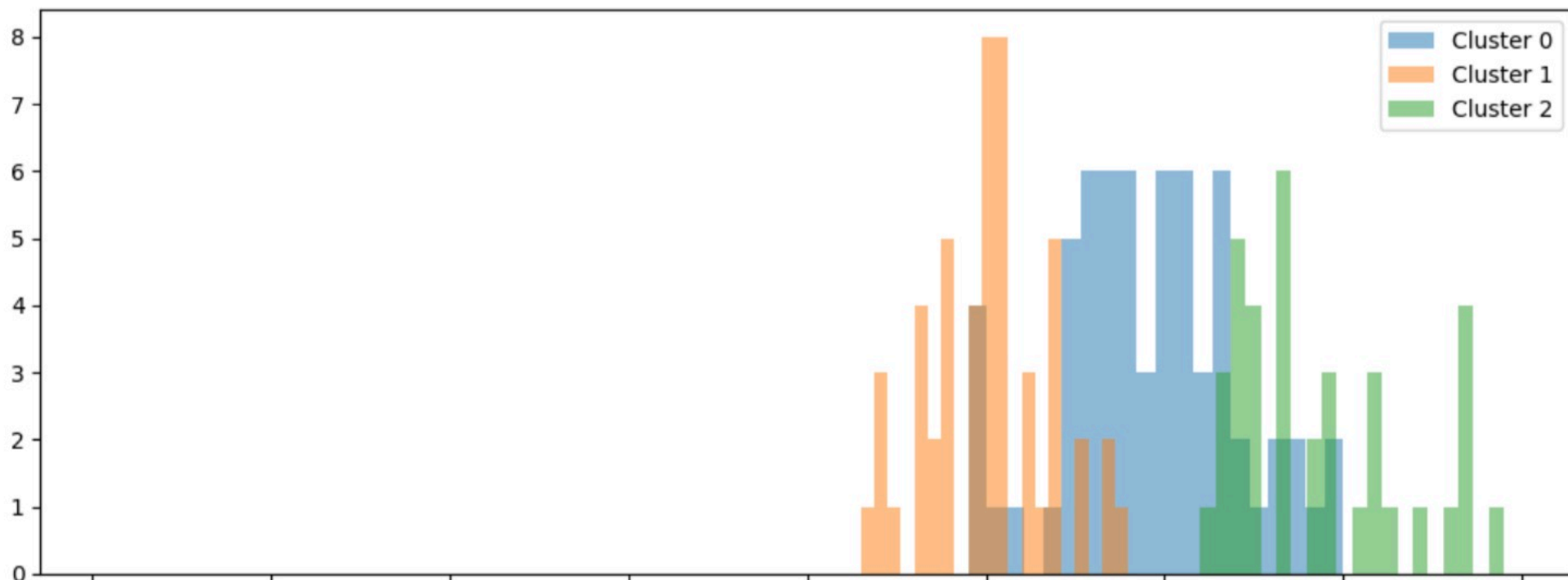


Silhouette - Hierarchical Clustering - No Data Processing - 3 clusters

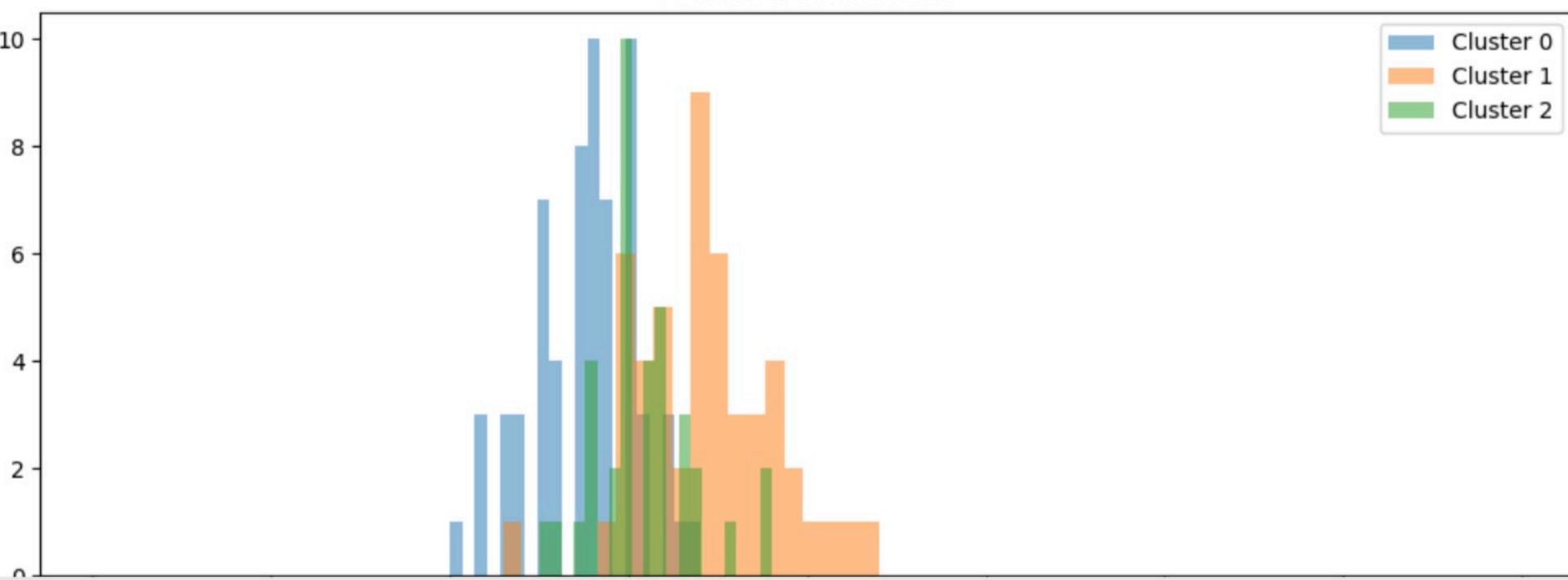


# Distribution - Hierarchical Clustering - No Data Processing - 3 clusters

## Feature 1 Distribution



## Feature 2 Distribution



2D Scatter - Hierarchical Clustering - Using Normalization - 3 clusters

