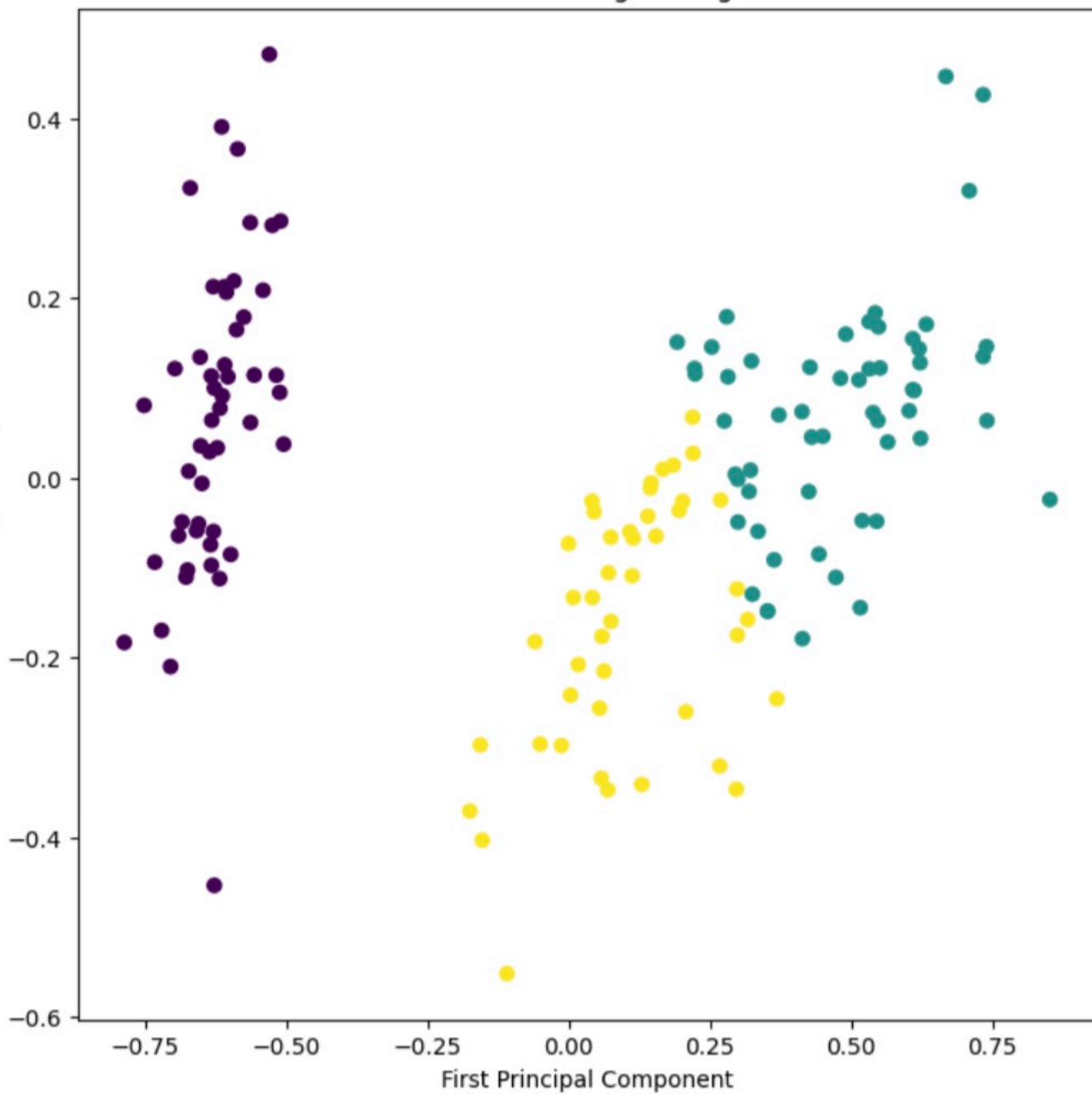


2D Scatter - K-Mean Clustering - Using T+N - 3 clusters

Second Principal Component



2.00

1.75

1.50

1.25

1.00

0.75

0.50

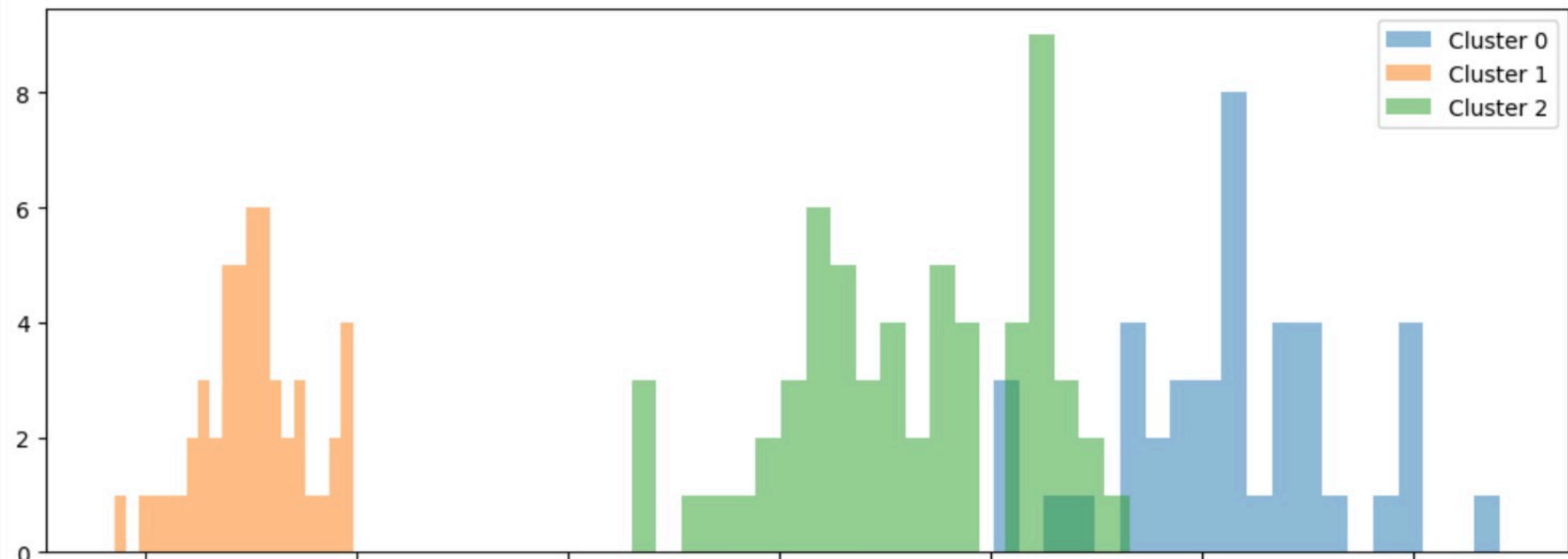
0.25

0.00

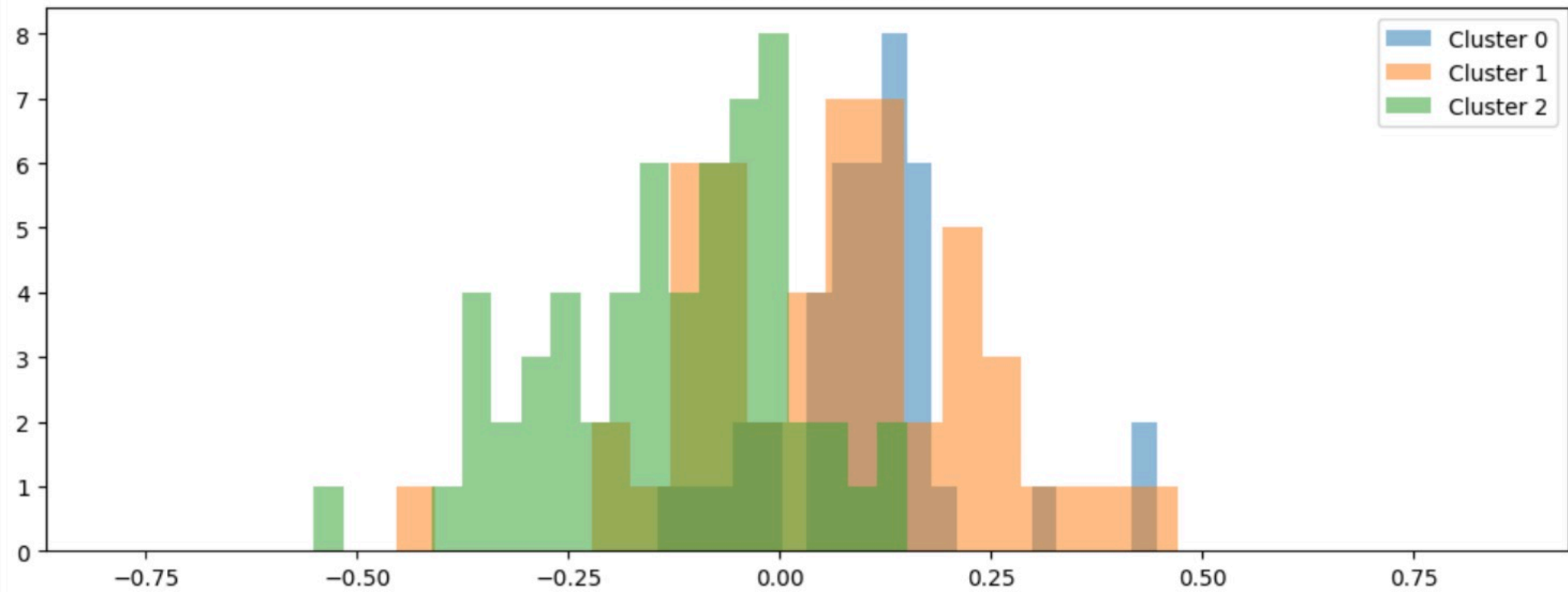
First Principal Component

Distribution - K-Mean Clustering - T+N+PCA - 3 clusters

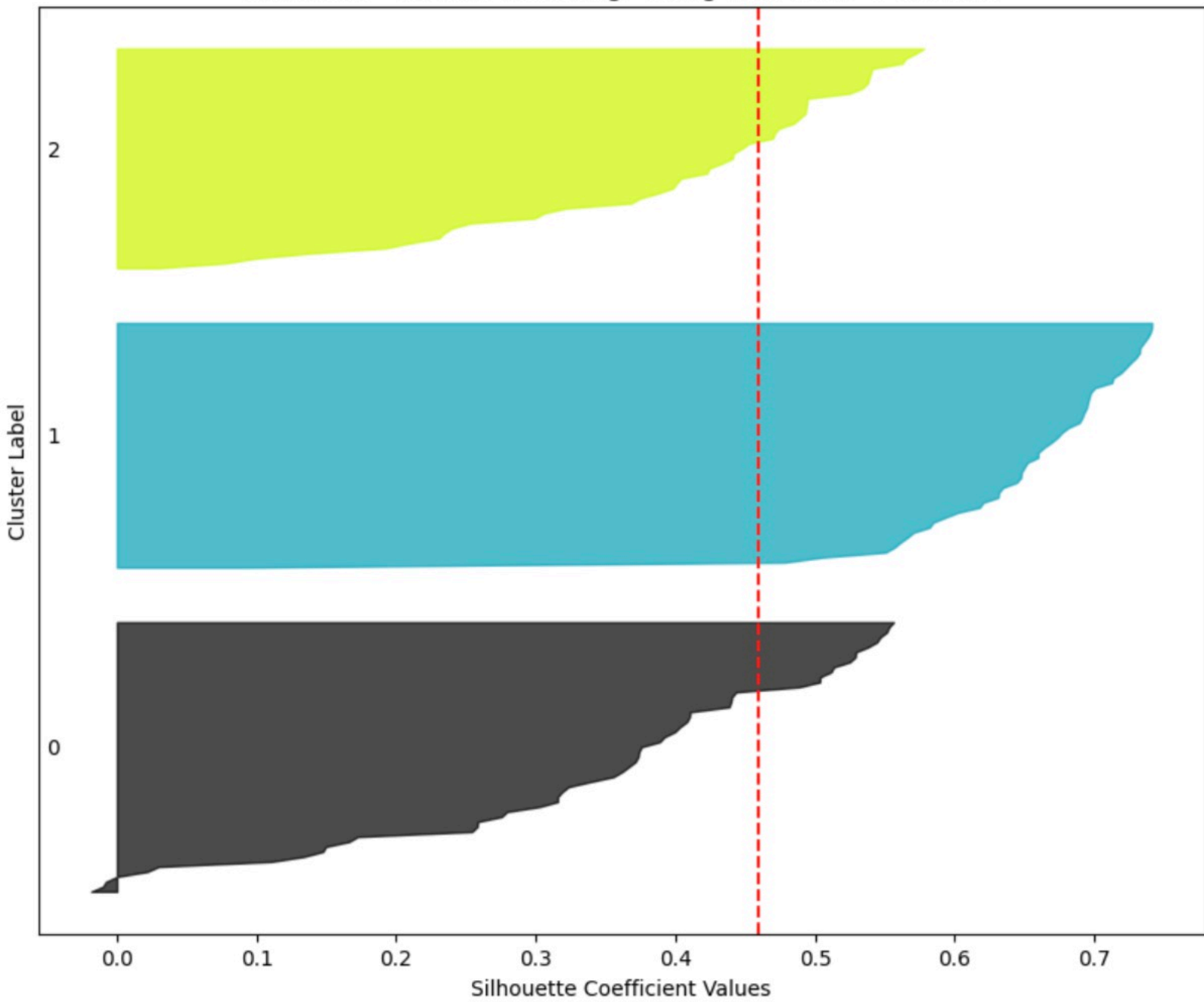
Feature 1 Distribution



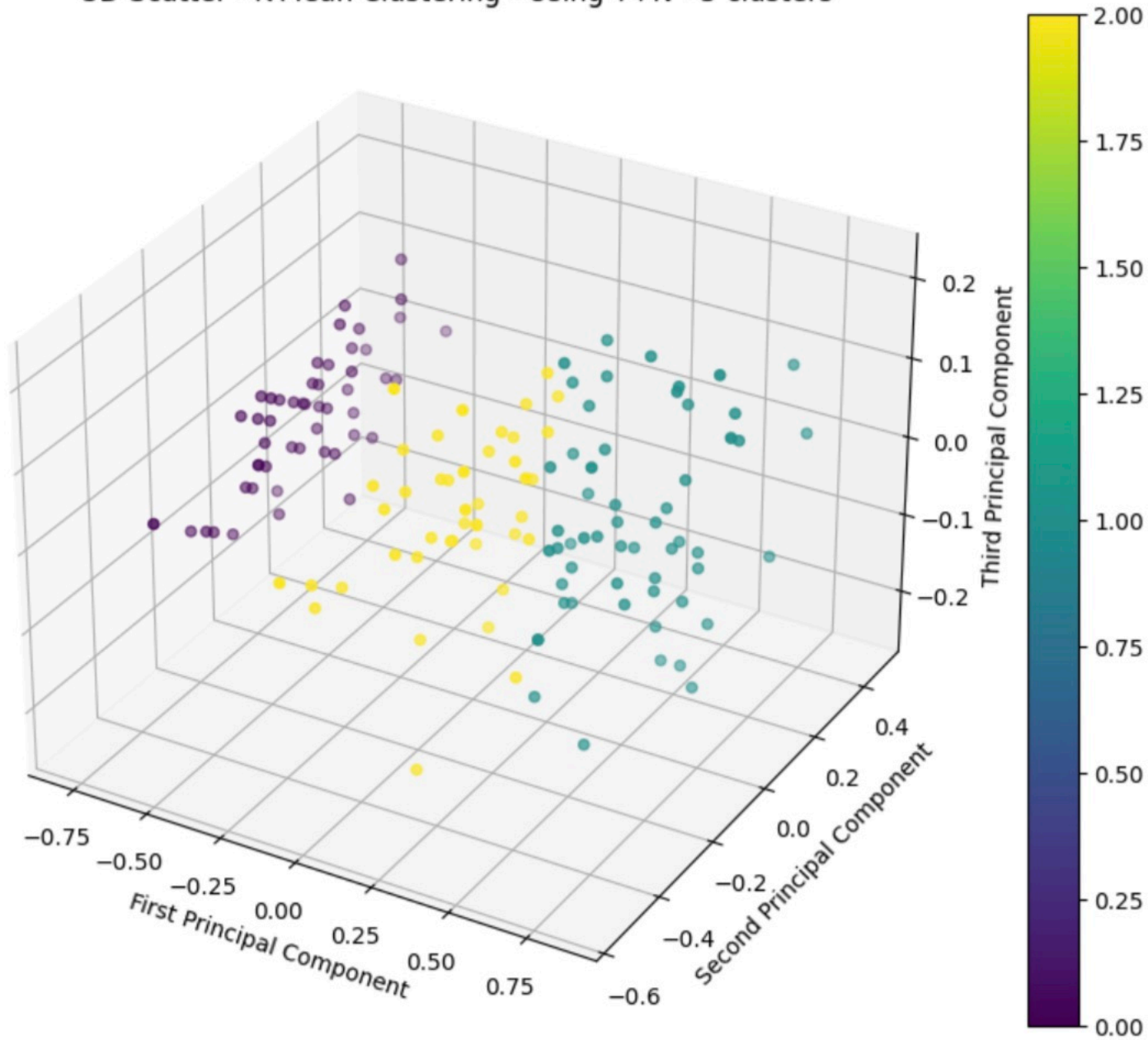
Feature 2 Distribution



Silhouette - K-Mean Clustering - Using Transform - 3 clusters

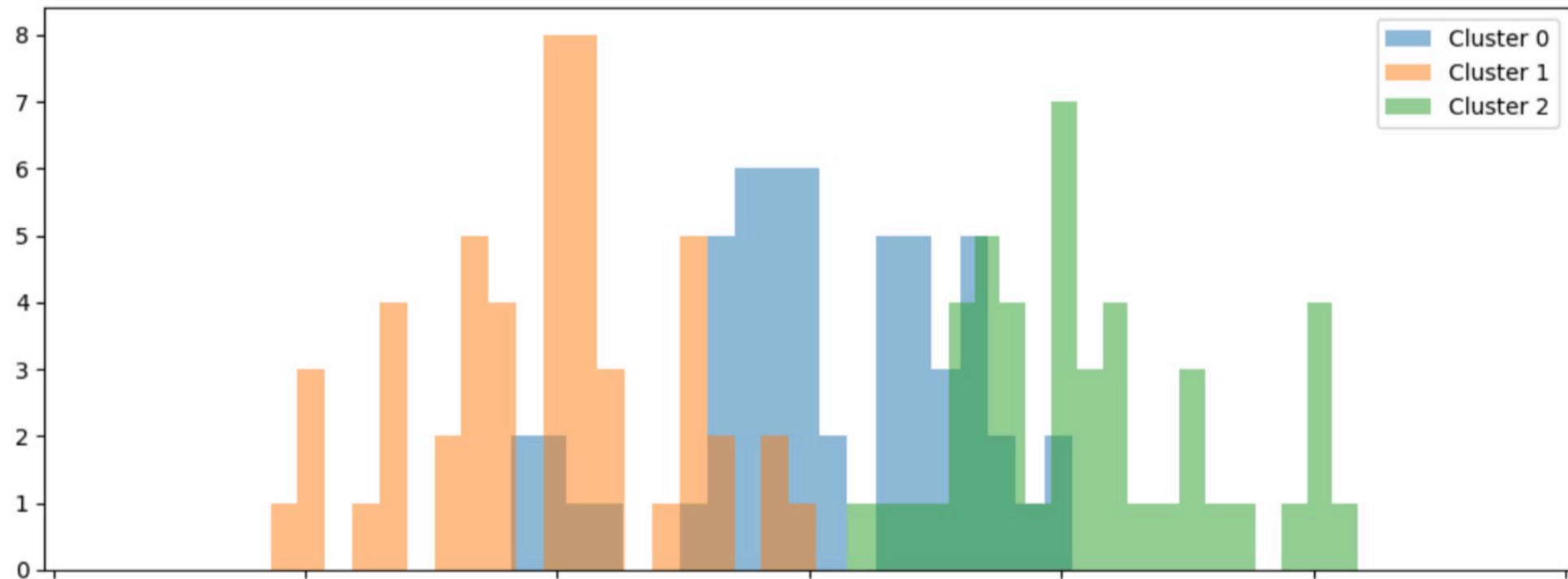


3D Scatter - K-Mean Clustering - Using T+N - 3 clusters

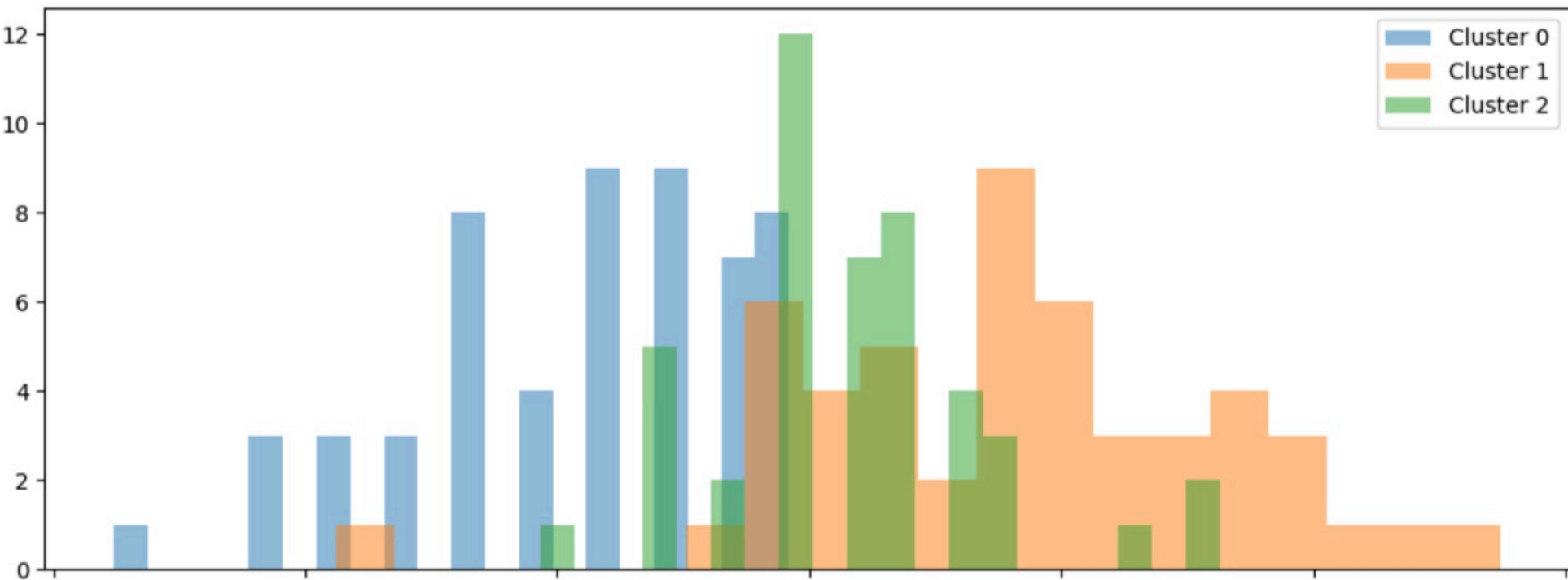


# Distribution - K-Mean Clustering - Using Transform - 3 clusters

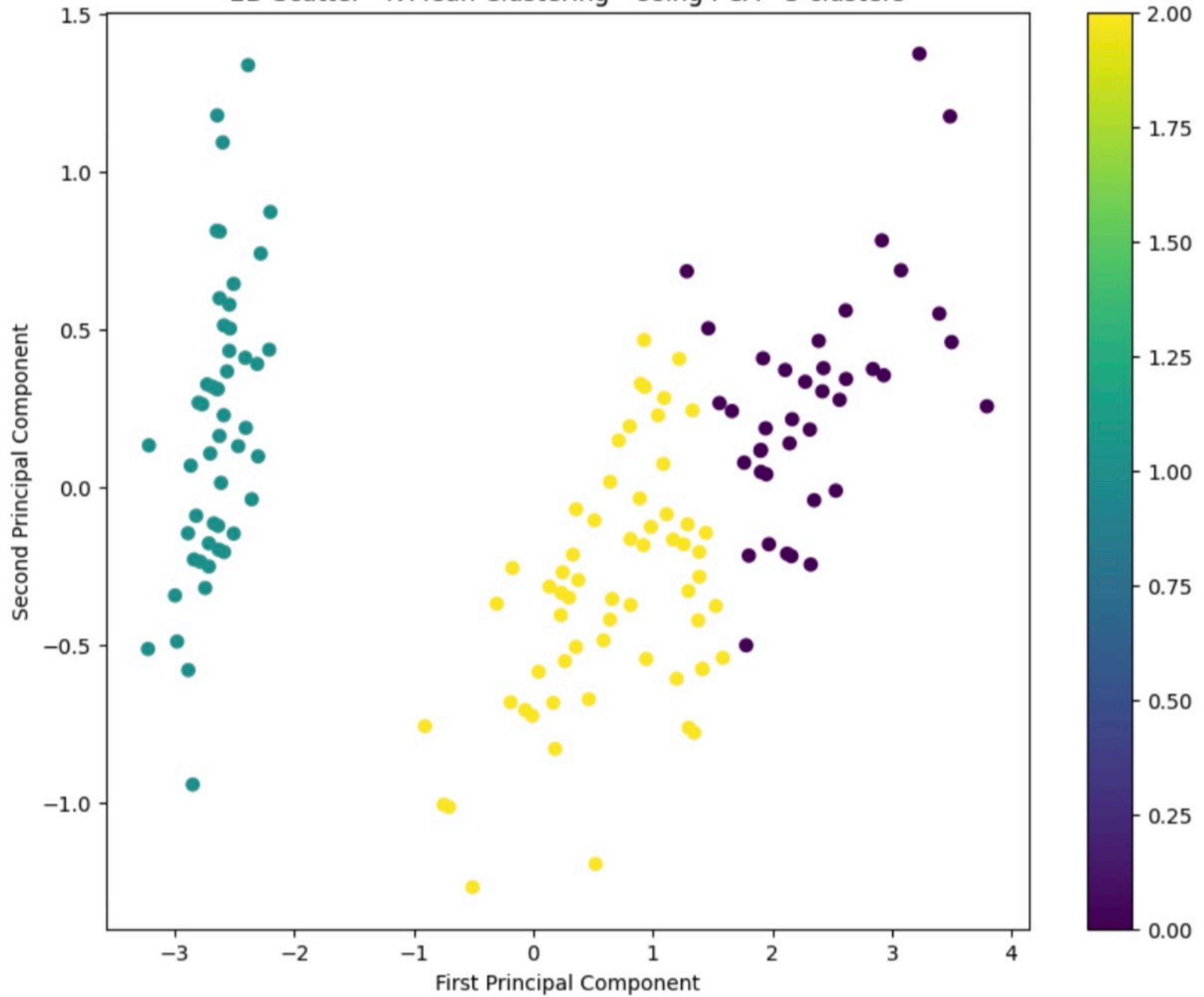
## Feature 1 Distribution



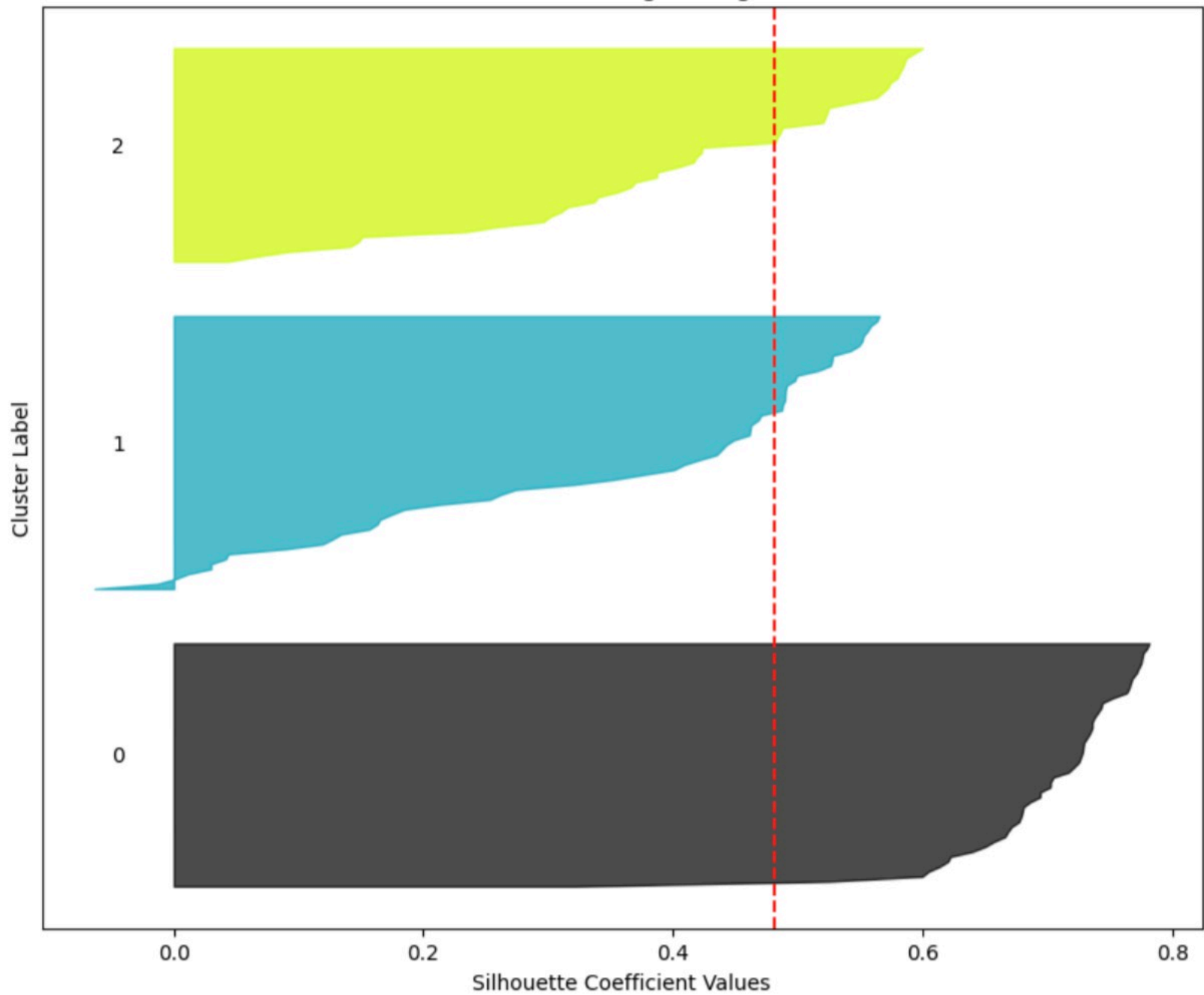
## Feature 2 Distribution



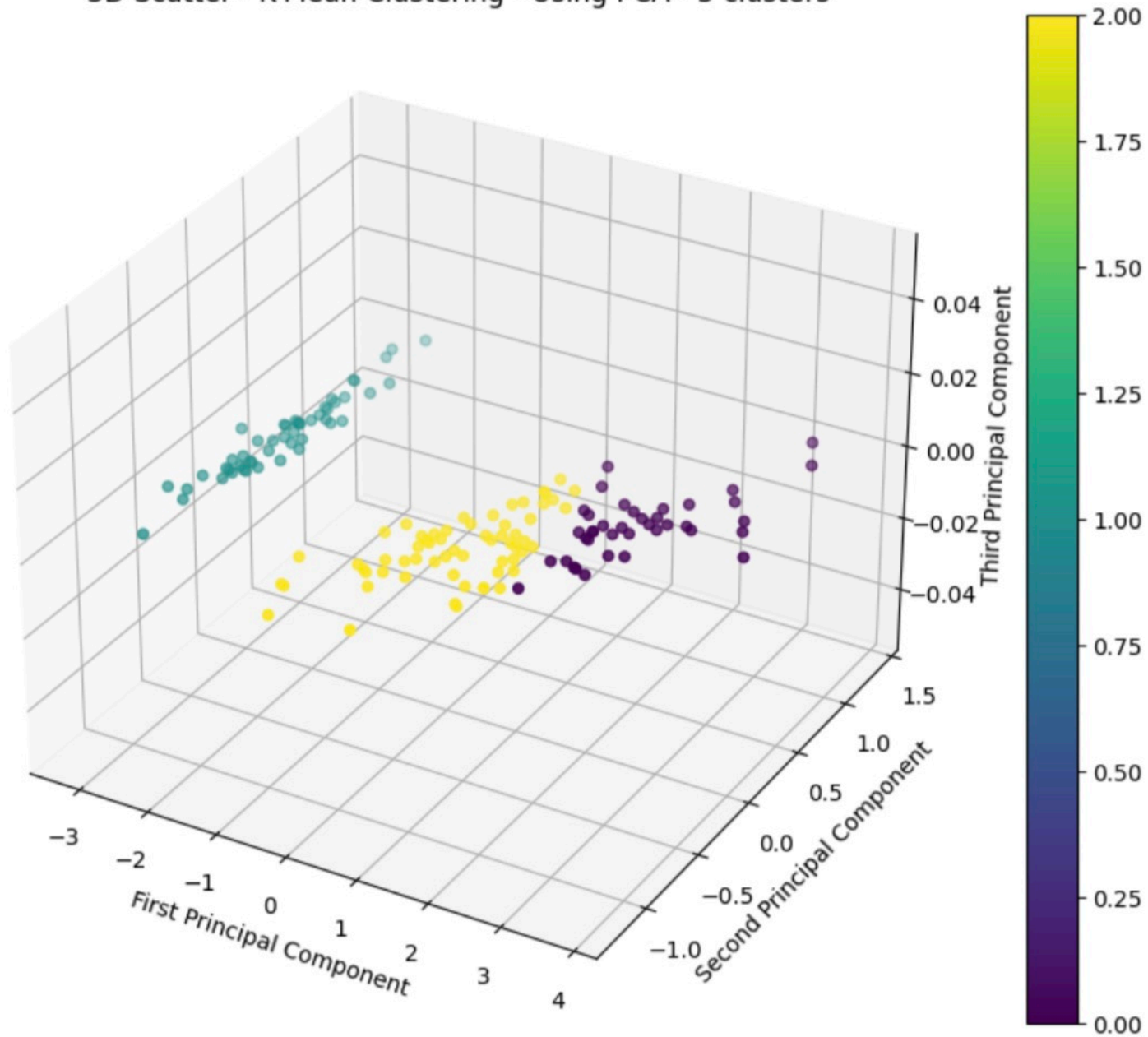
2D Scatter - K-Mean Clustering - Using PCA - 3 clusters



Silhouette - K-Mean Clustering - Using T+N - 3 clusters



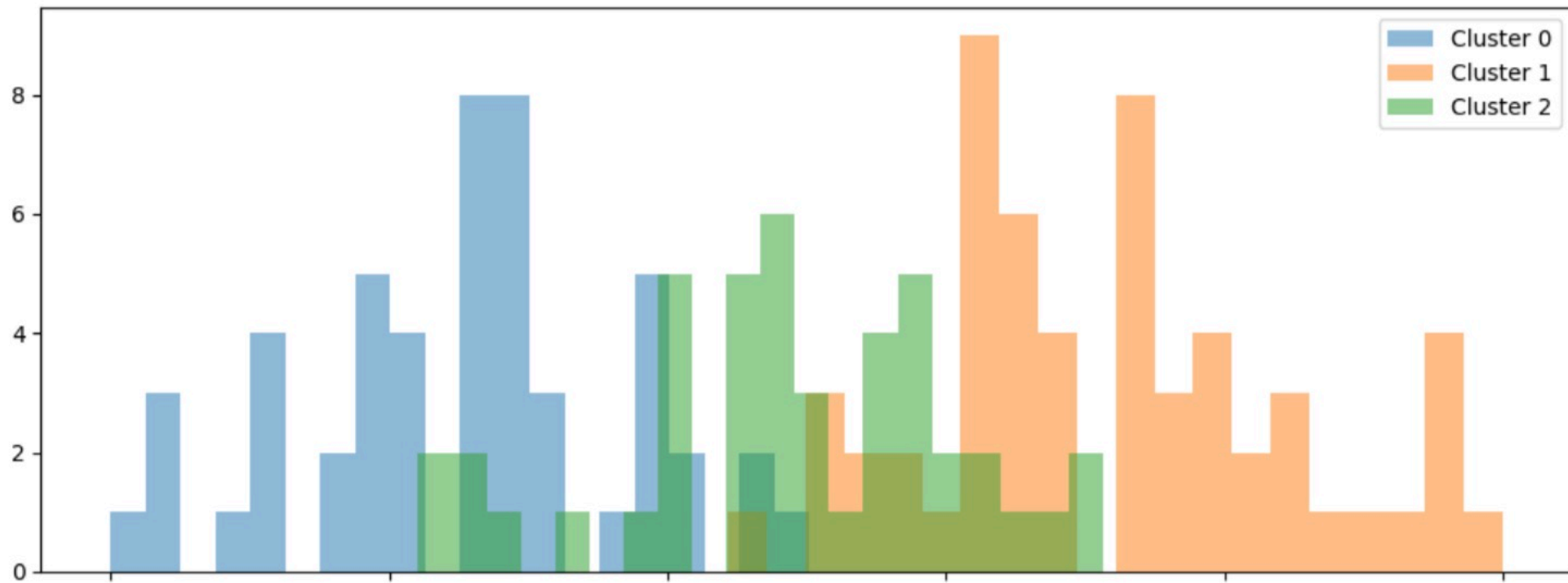
3D Scatter - K-Mean Clustering - Using PCA - 3 clusters



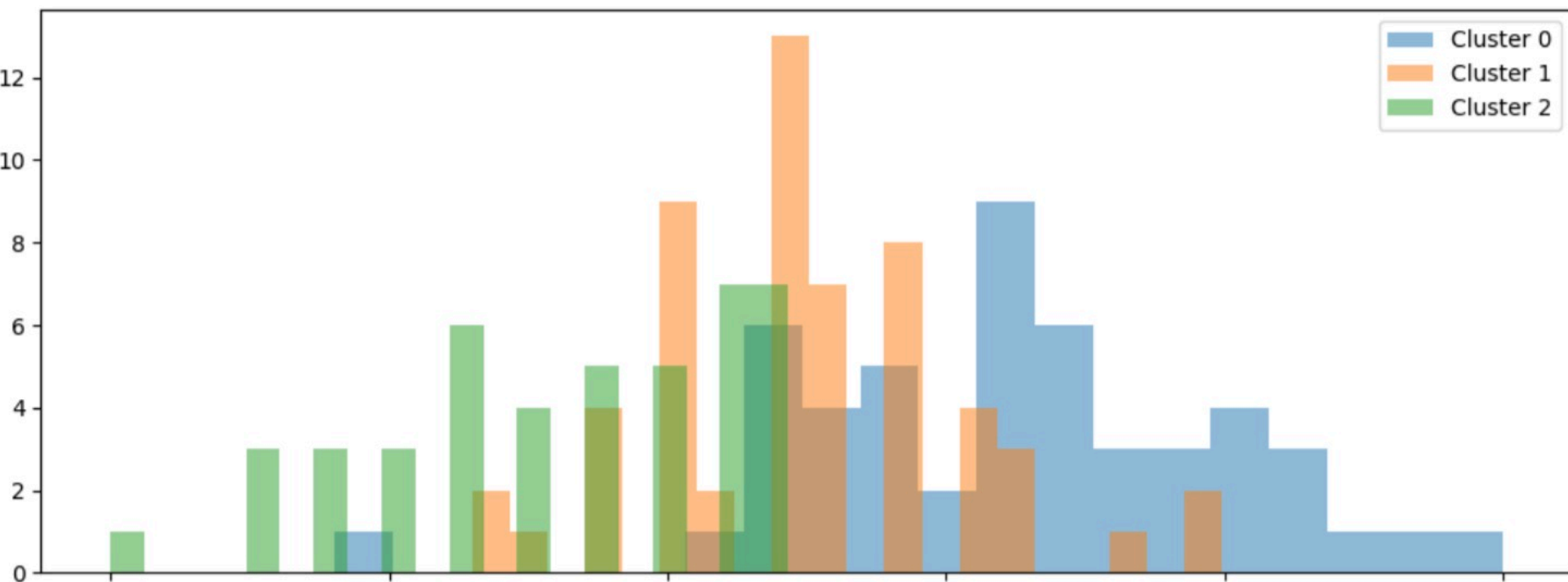


# Distribution - K-Mean Clustering - Using T+N - 3 clusters

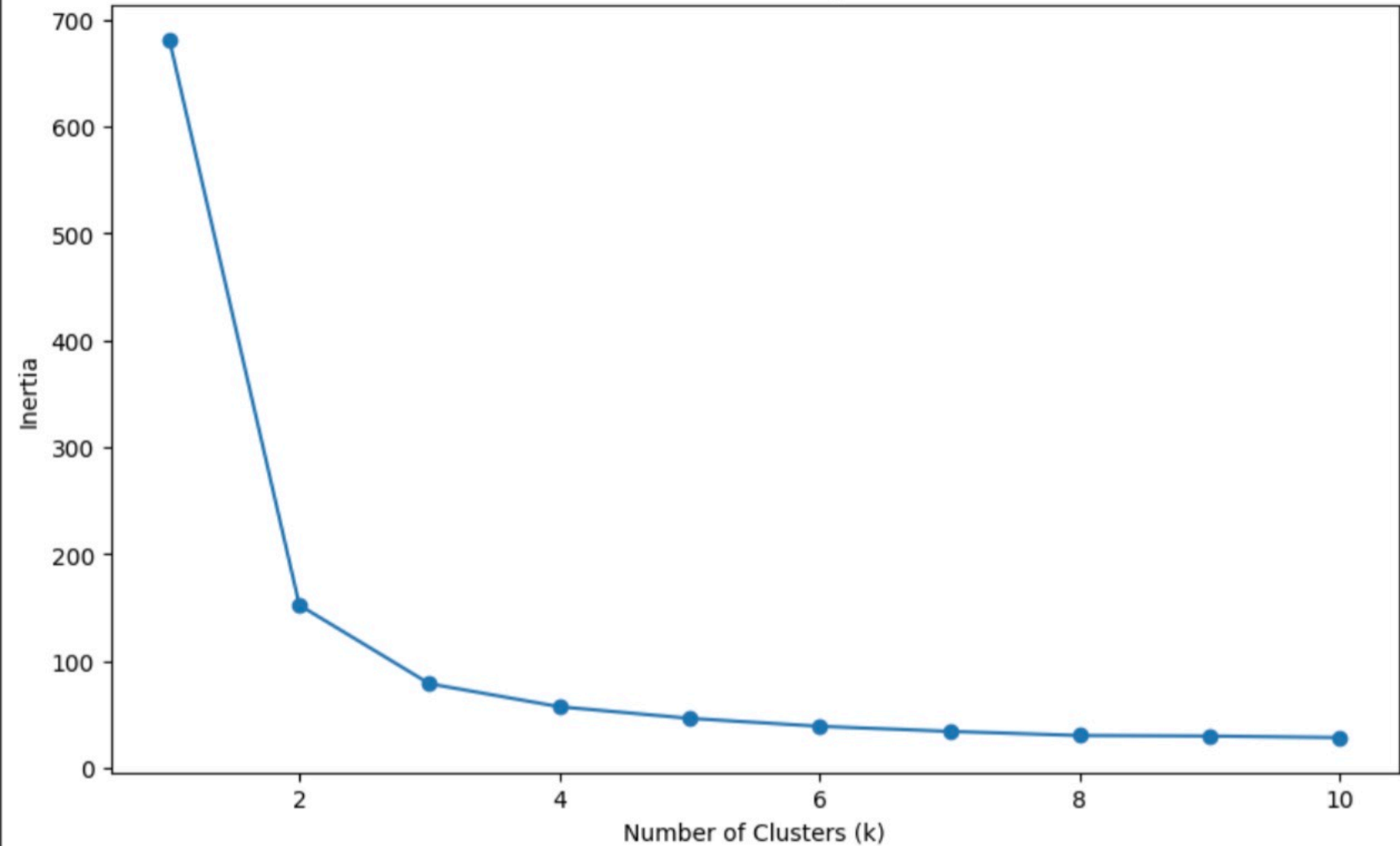
## Feature 1 Distribution



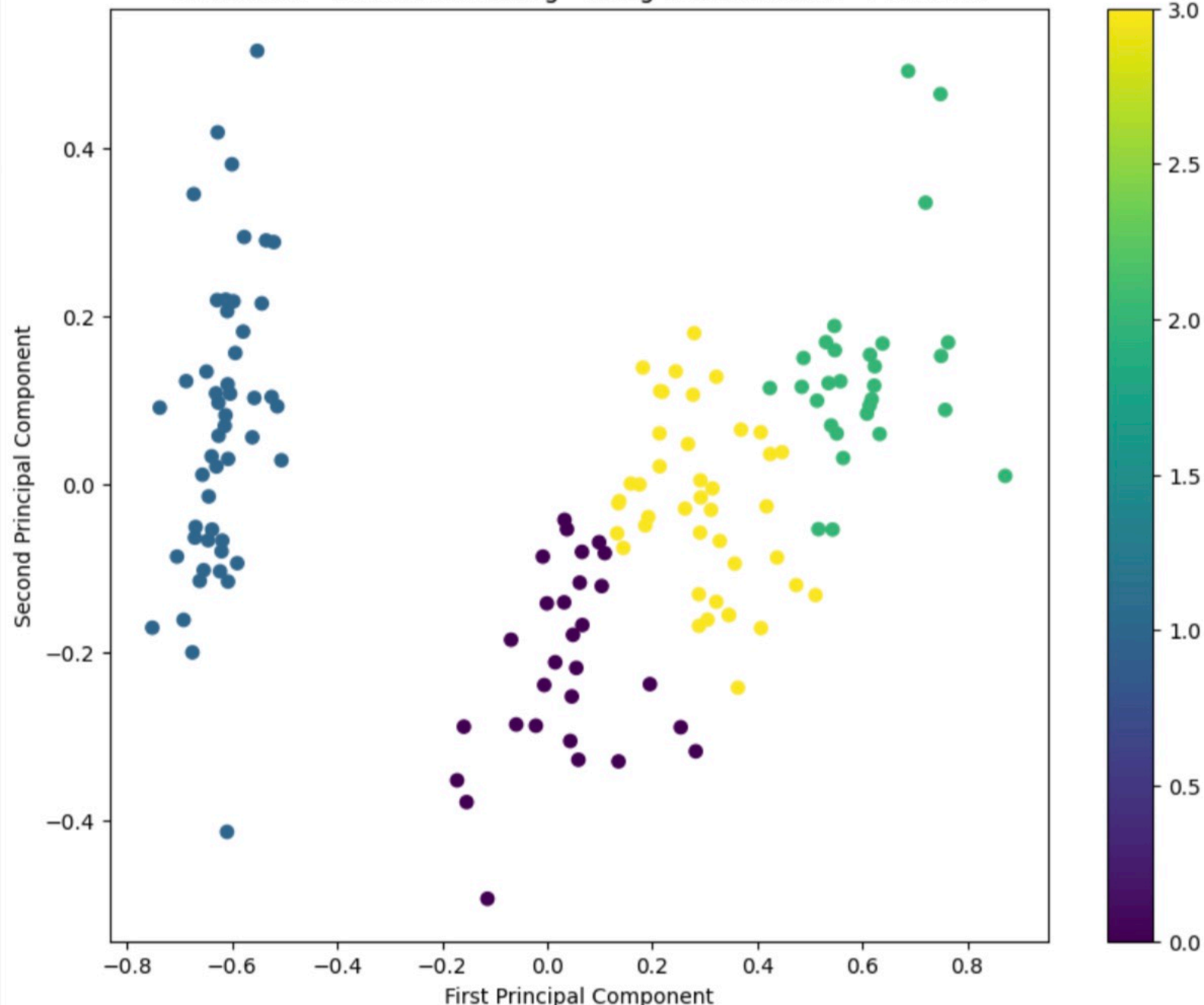
## Feature 2 Distribution



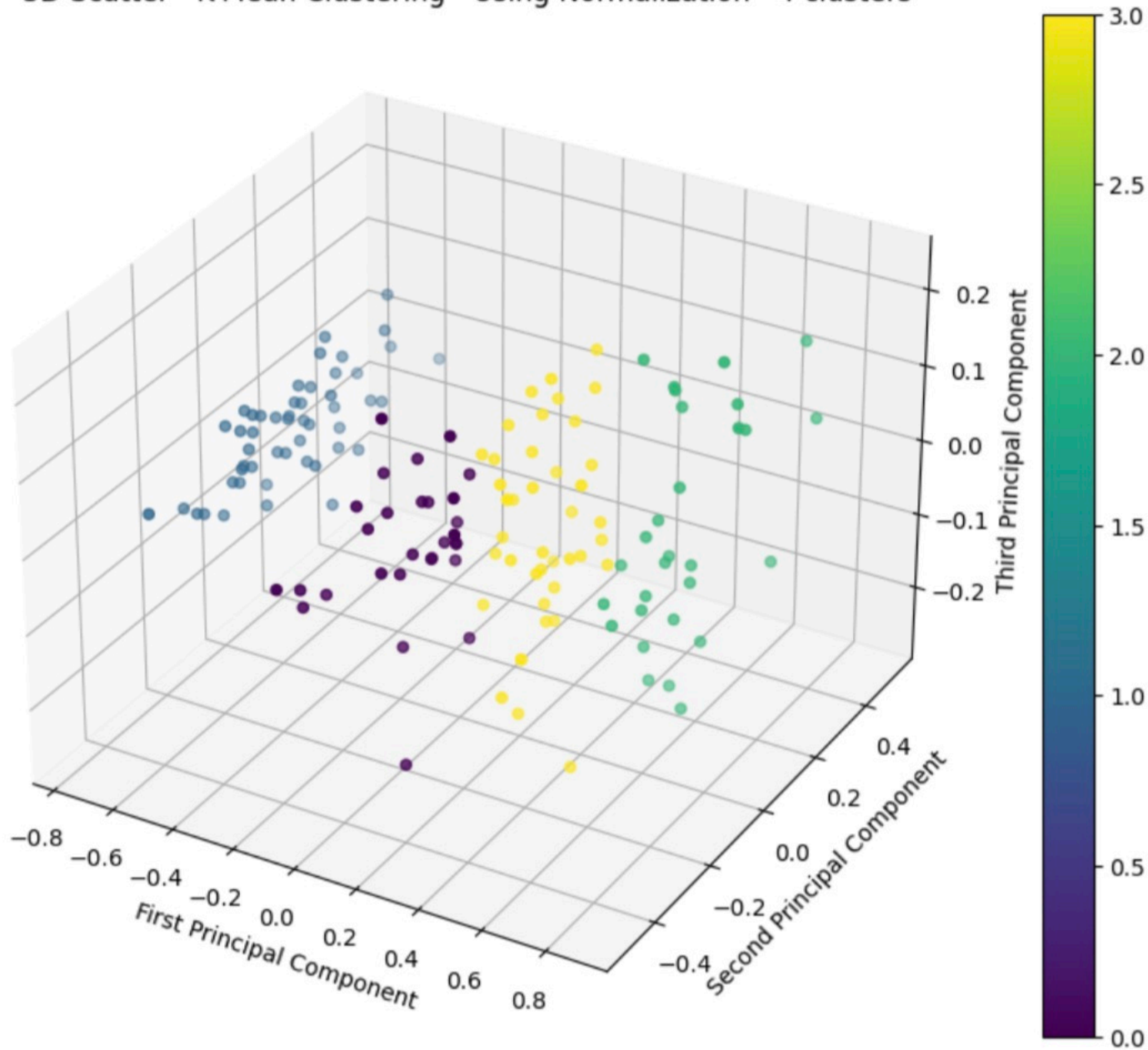
Elbow Method for Optimal k



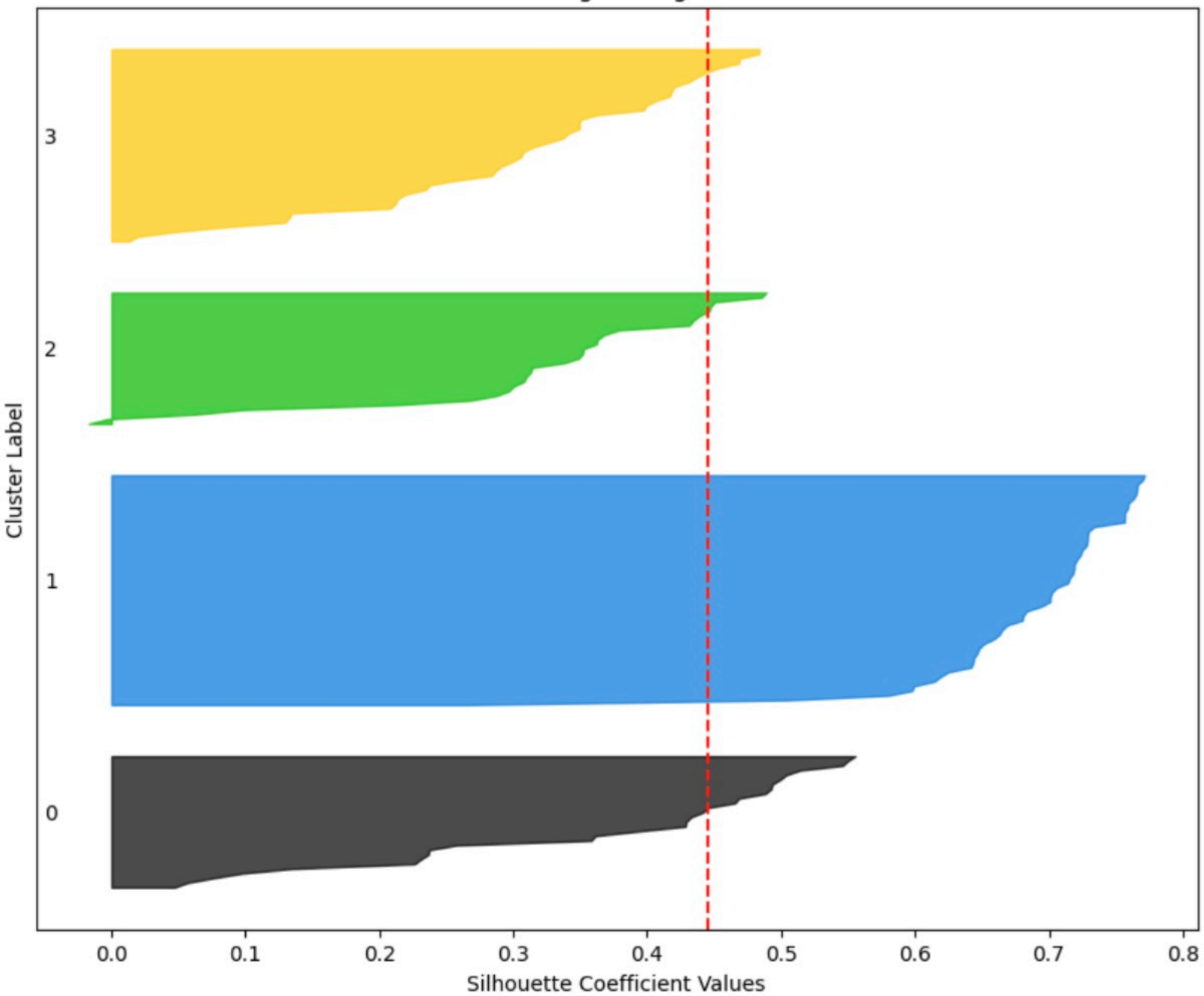
2D Scatter - K-Mean Clustering - Using Normalization - 4 clusters



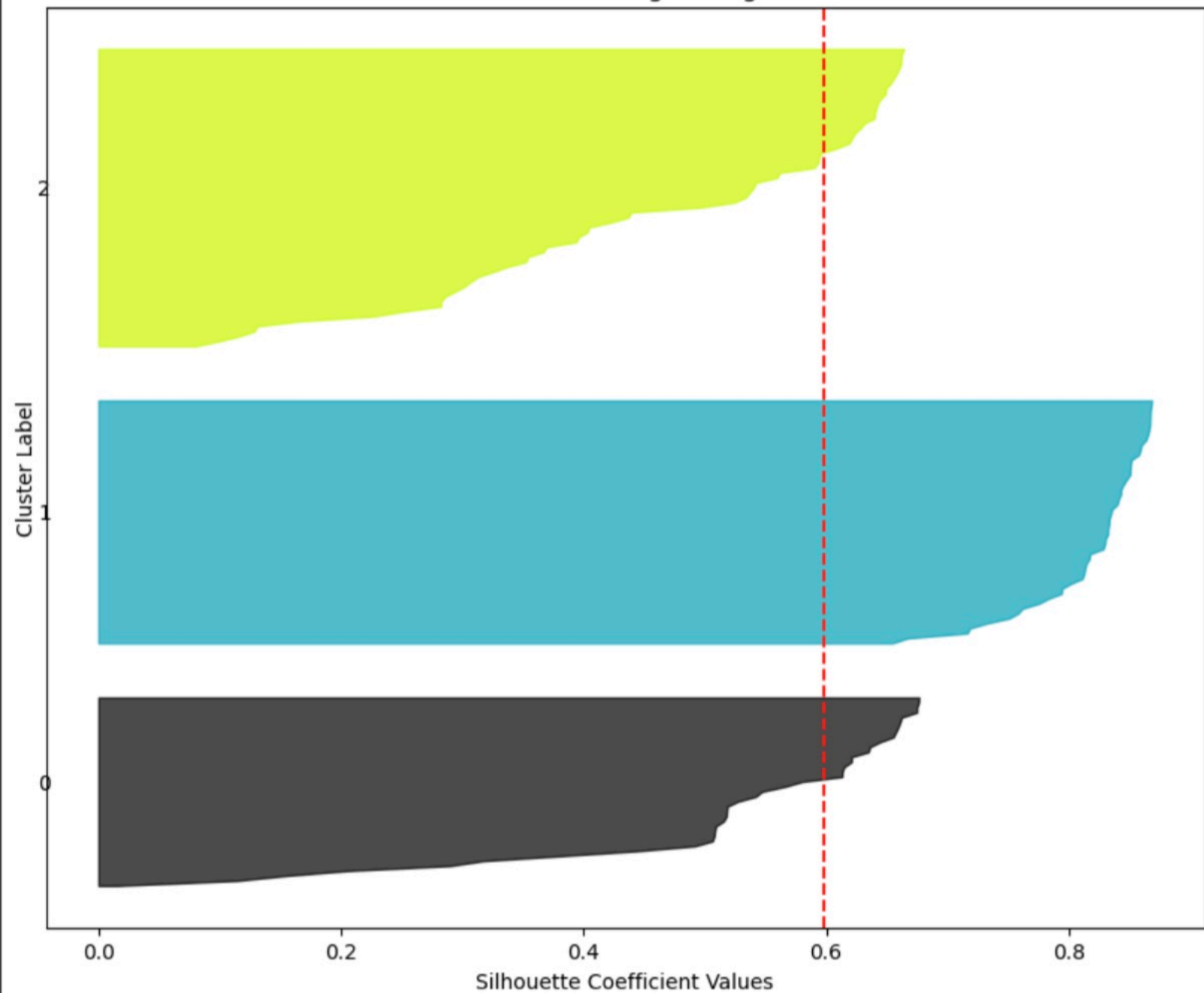
3D Scatter - K-Mean Clustering - Using Normalization - 4 clusters



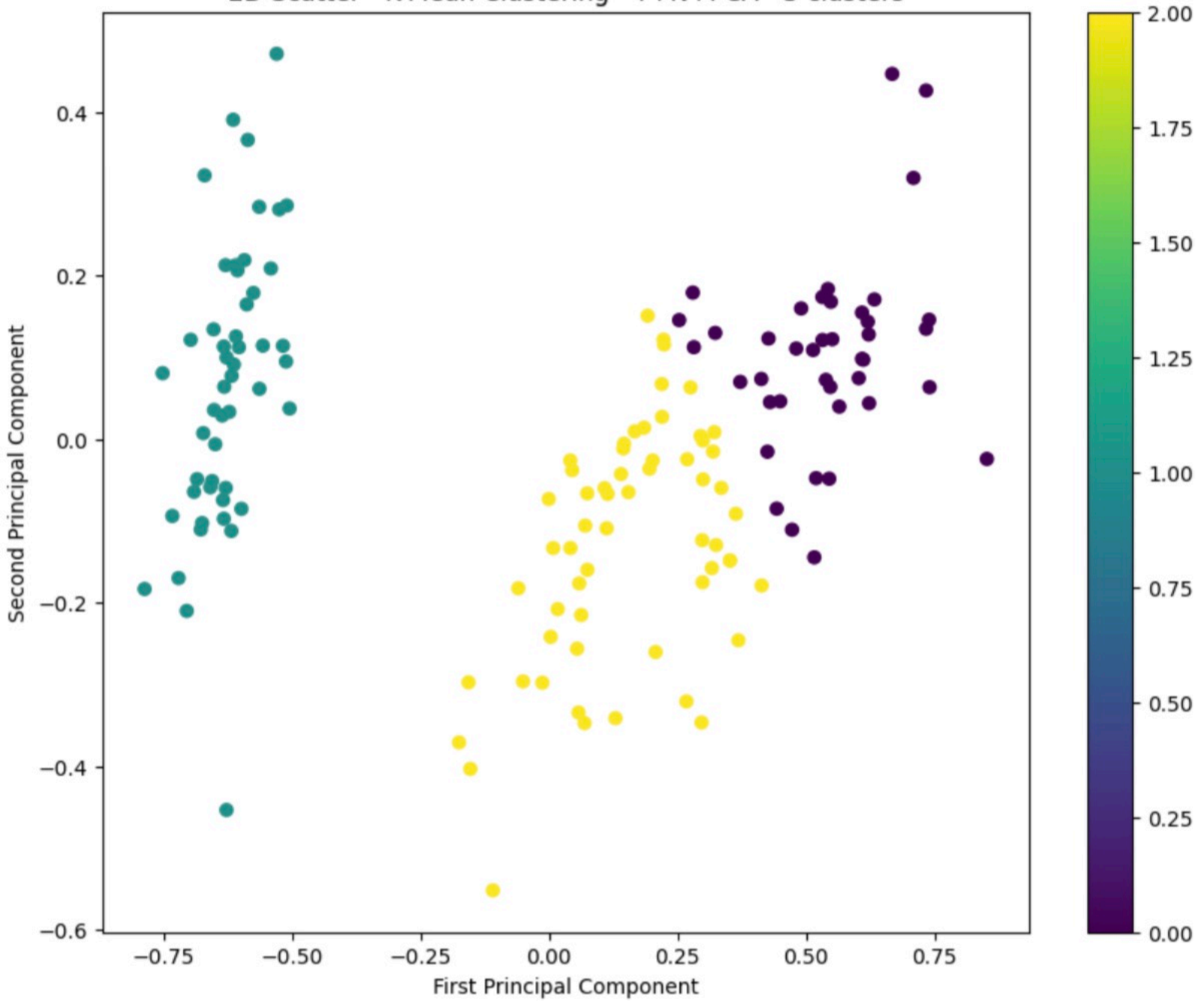
Silhouette - K-Mean Clustering - Using Normalization - 4 clusters



Silhouette - K-Mean Clustering - Using PCA - 3 clusters

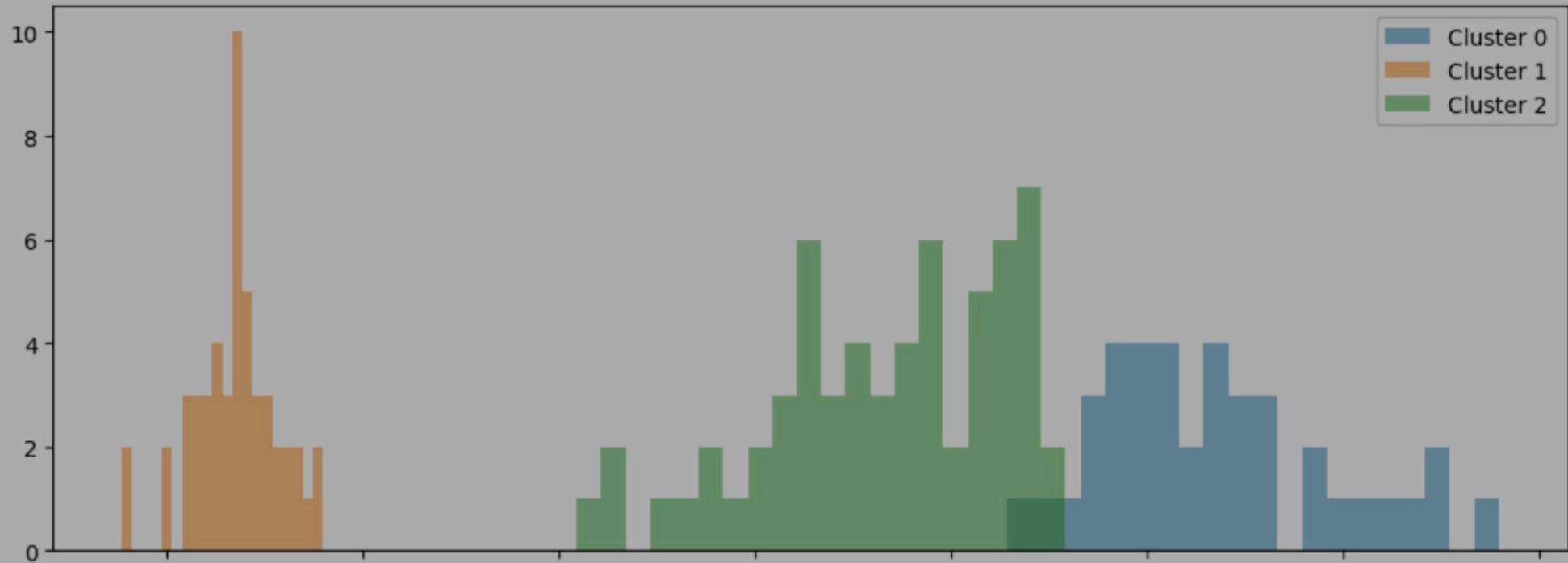


2D Scatter - K-Mean Clustering - T+N+PCA - 3 clusters

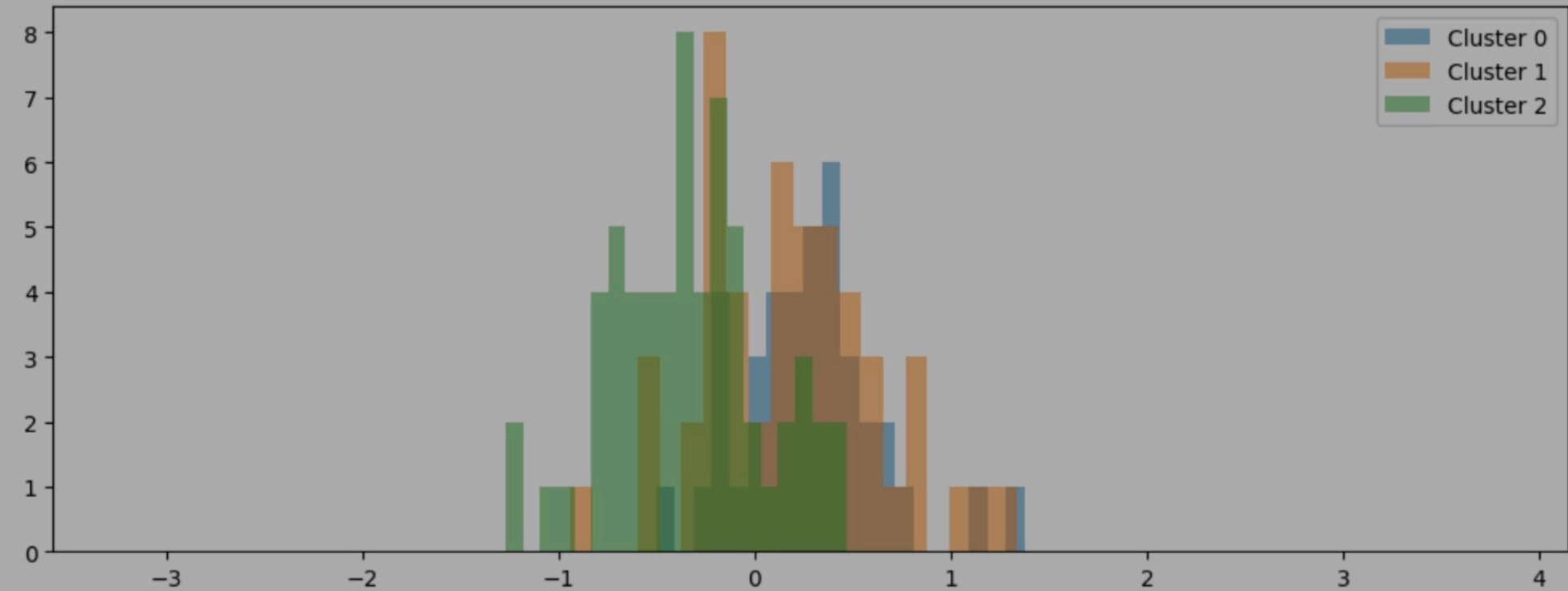


# Distribution - K-Mean Clustering - Using PCA - 3 clusters

## Feature 1 Distribution

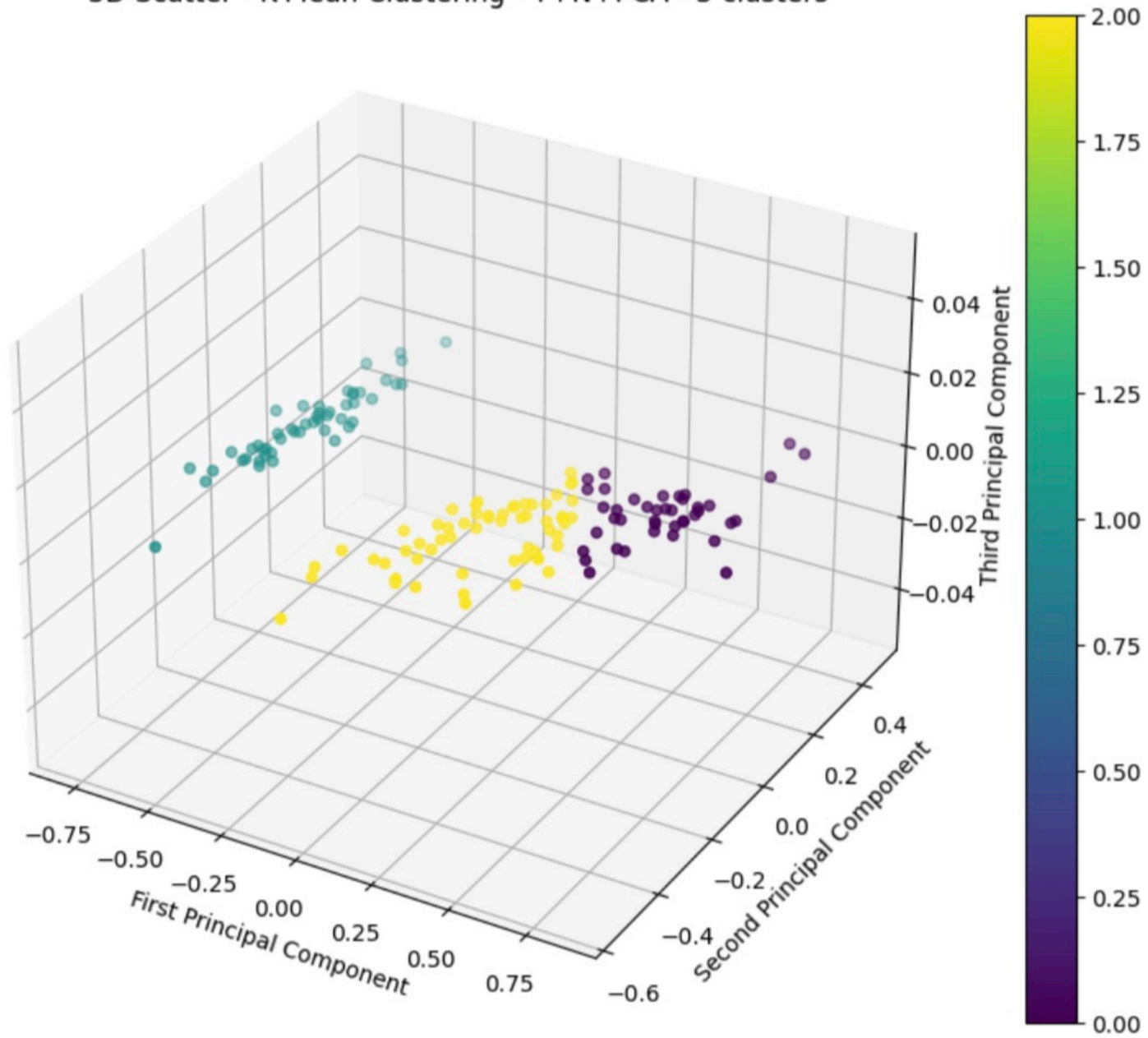


## Feature 2 Distribution

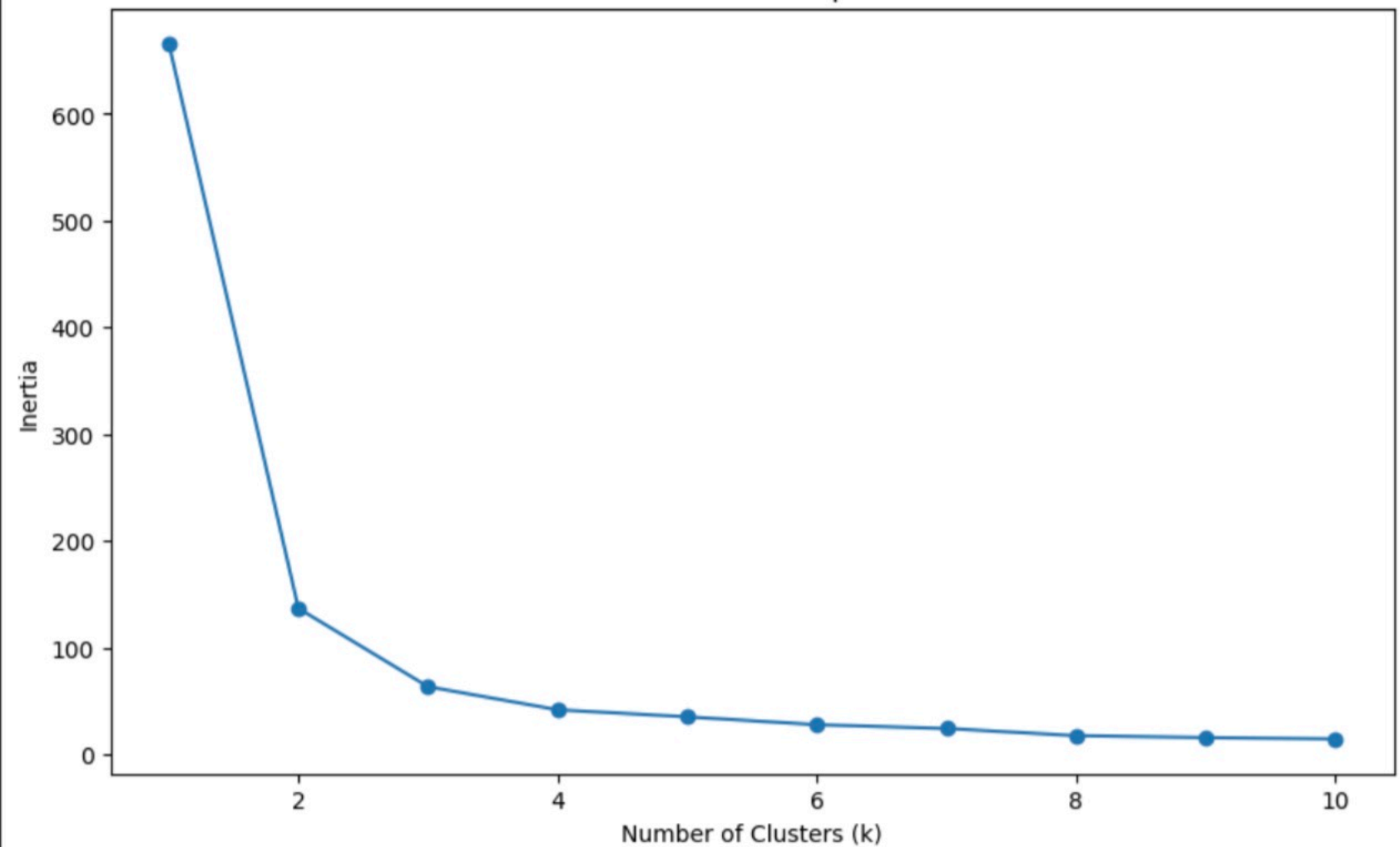




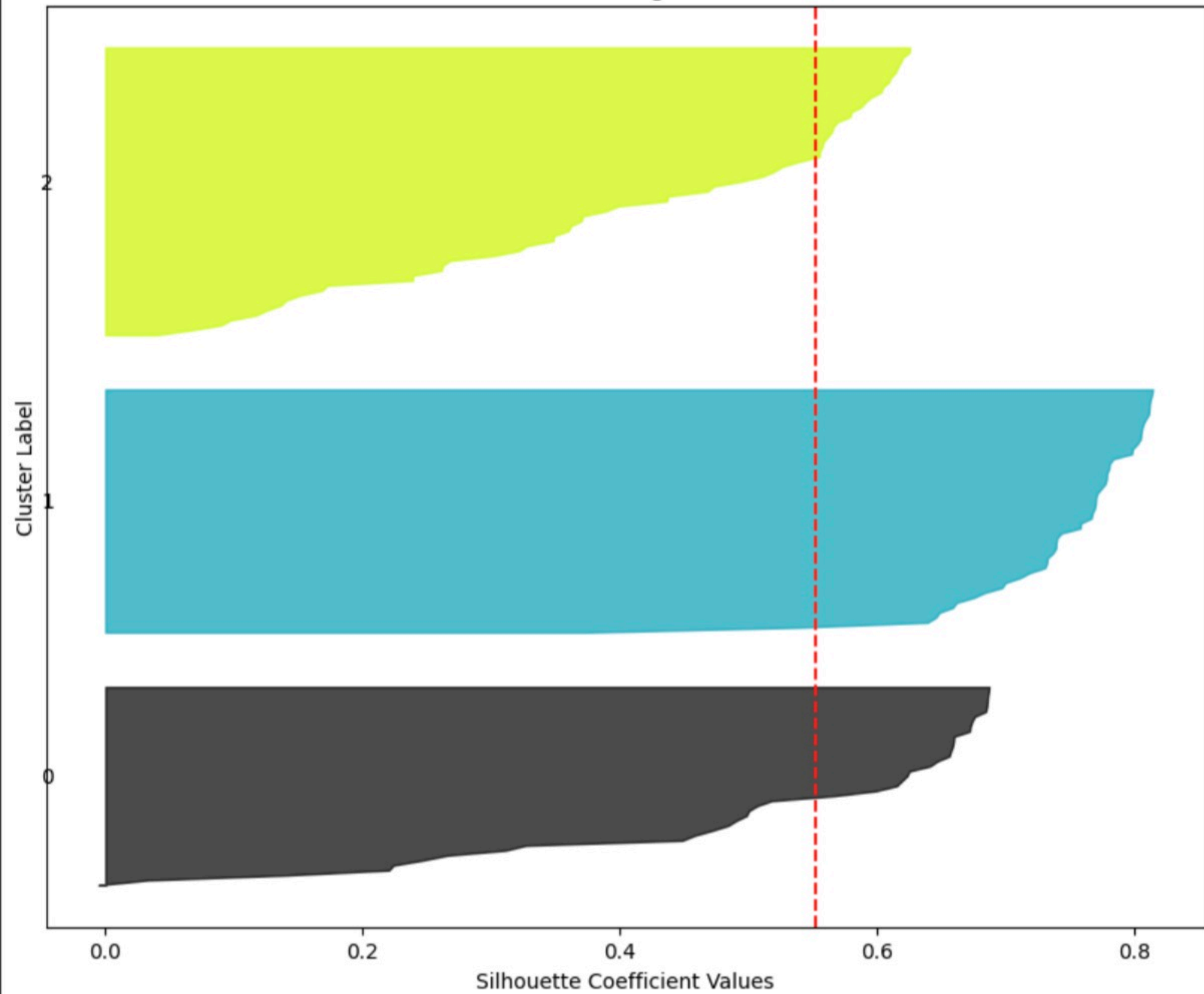
3D Scatter - K-Mean Clustering - T+N+PCA - 3 clusters



Elbow Method for Optimal k

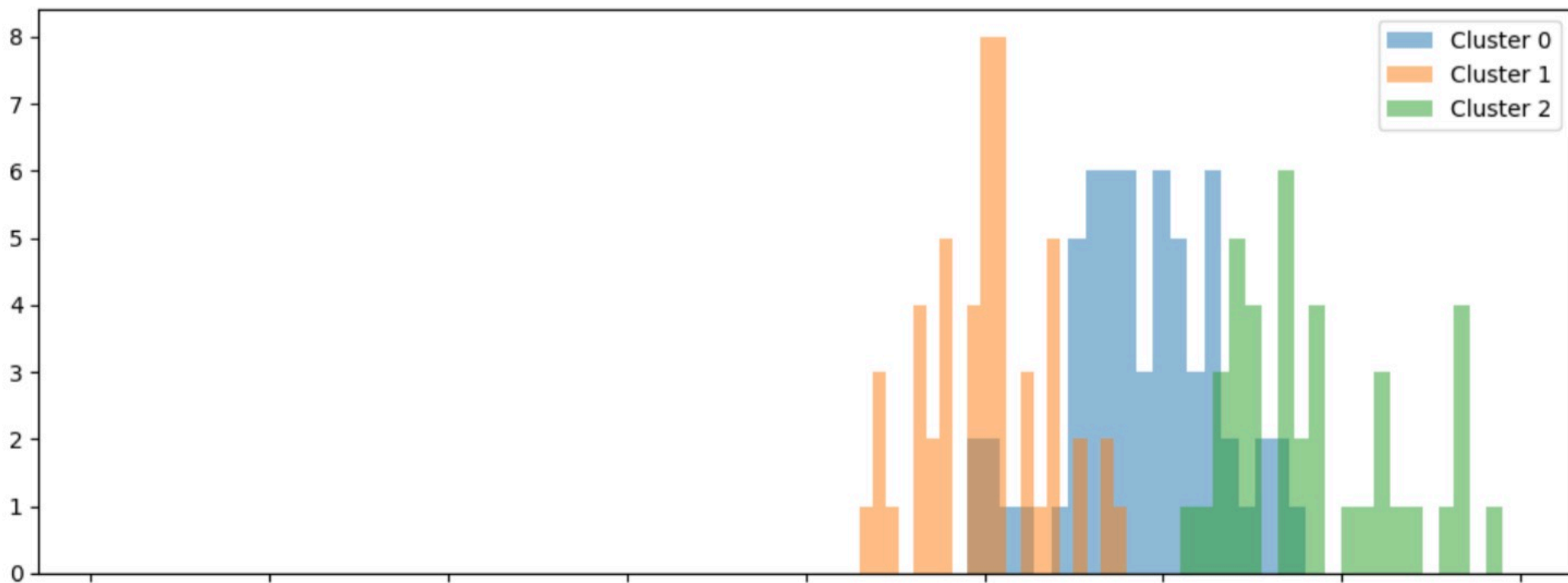


Silhouette - K-Mean Clustering - T+N+PCA - 3 clusters

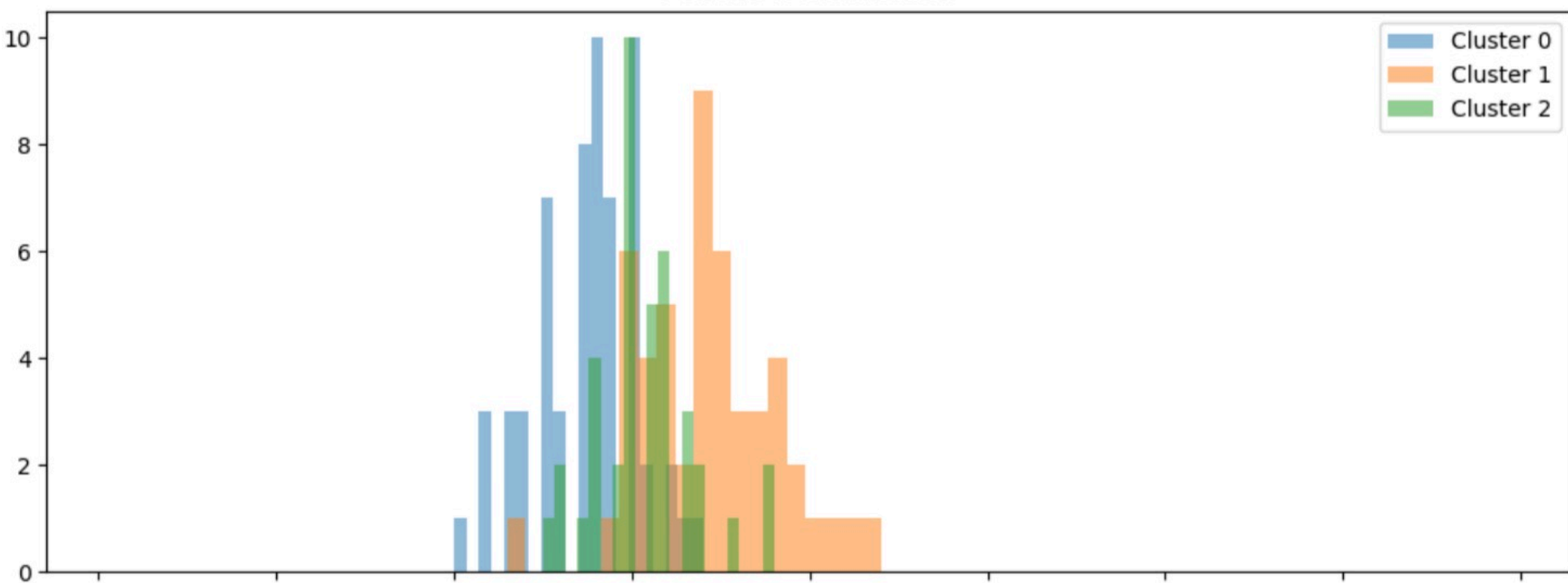


# Distribution - K-Mean Clustering - No Data Processing - 3 clusters

## Feature 1 Distribution

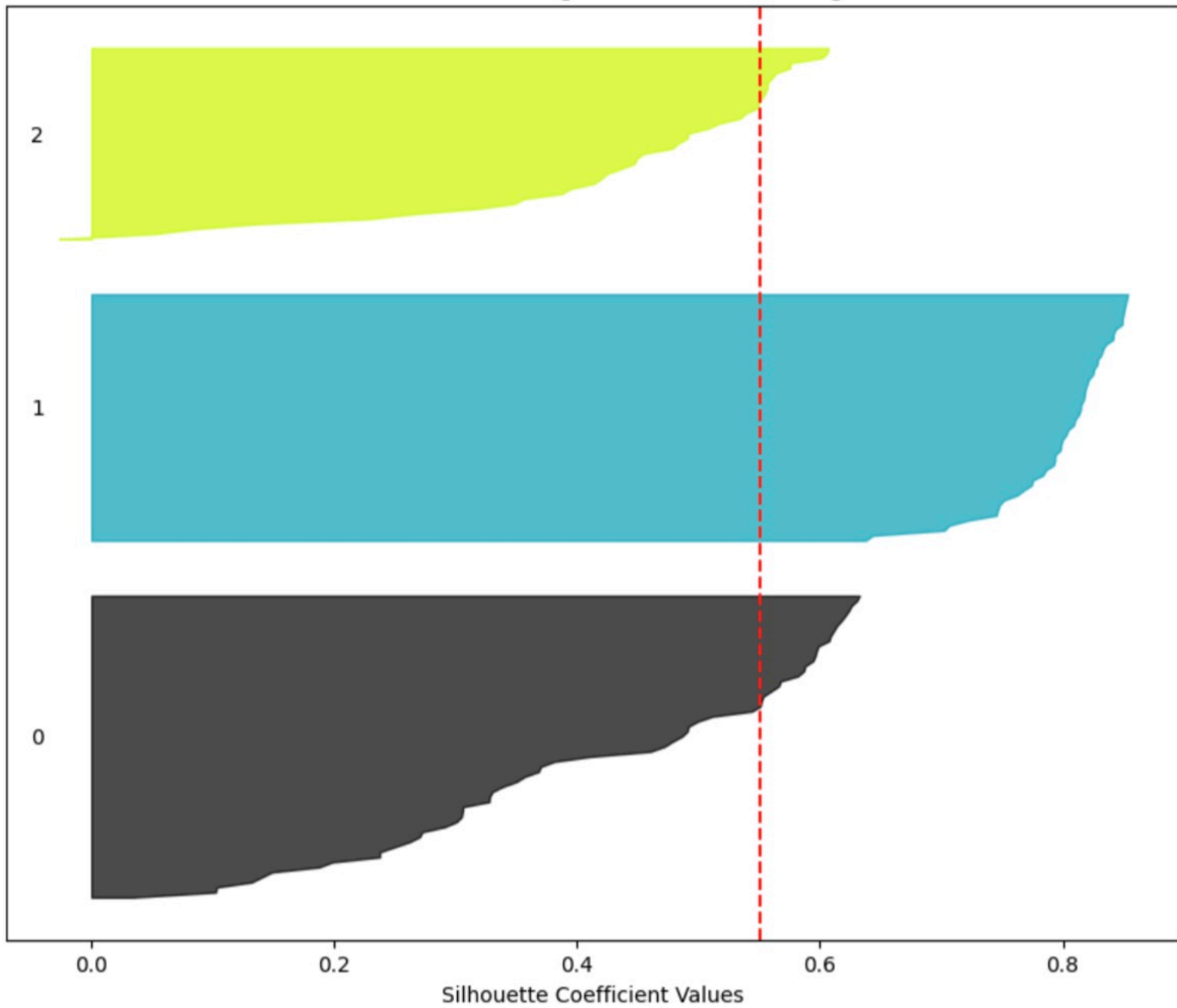


## Feature 2 Distribution

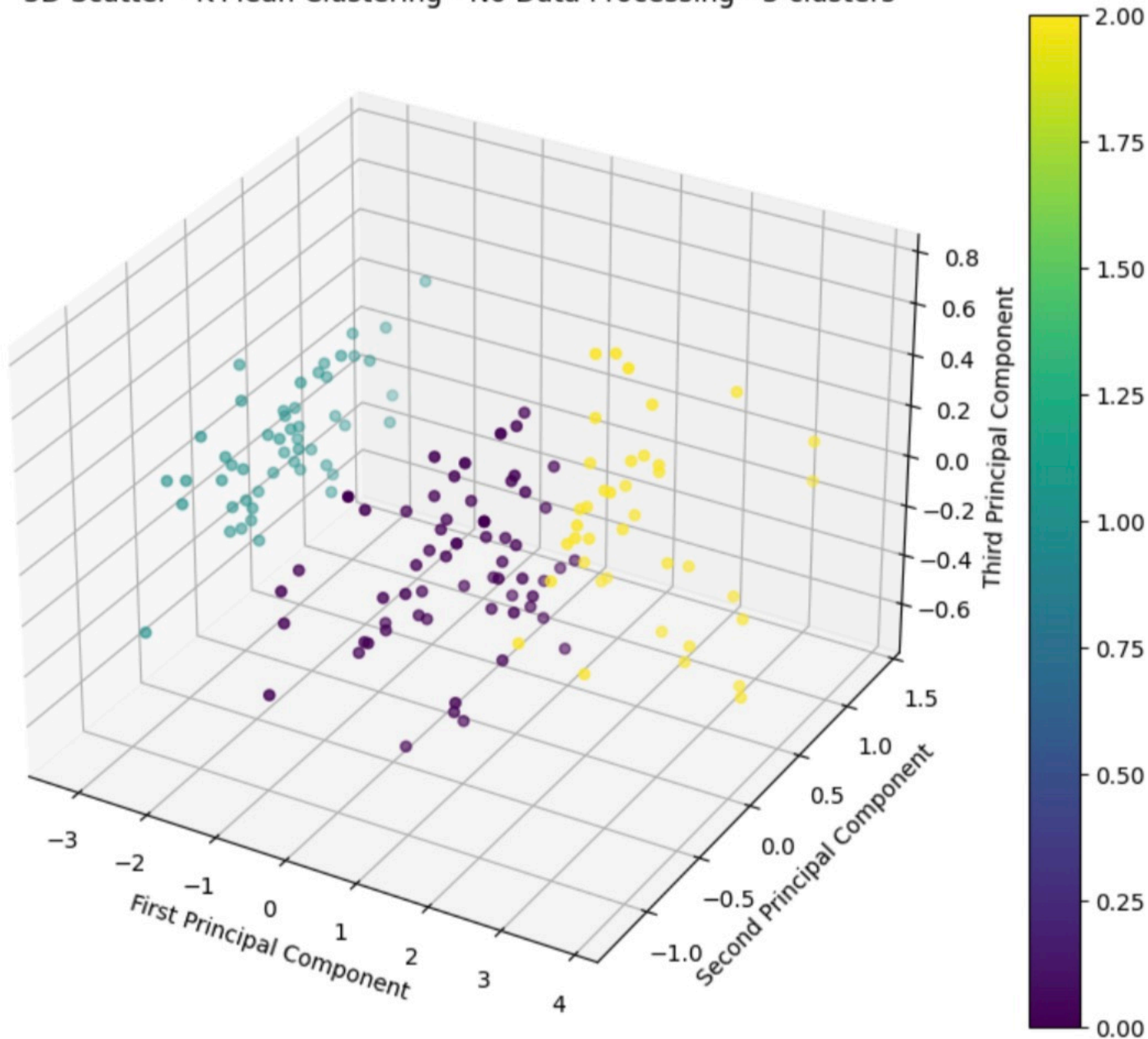


Silhouette - K-Mean Clustering - No Data Processing - 3 clusters

Cluster Label

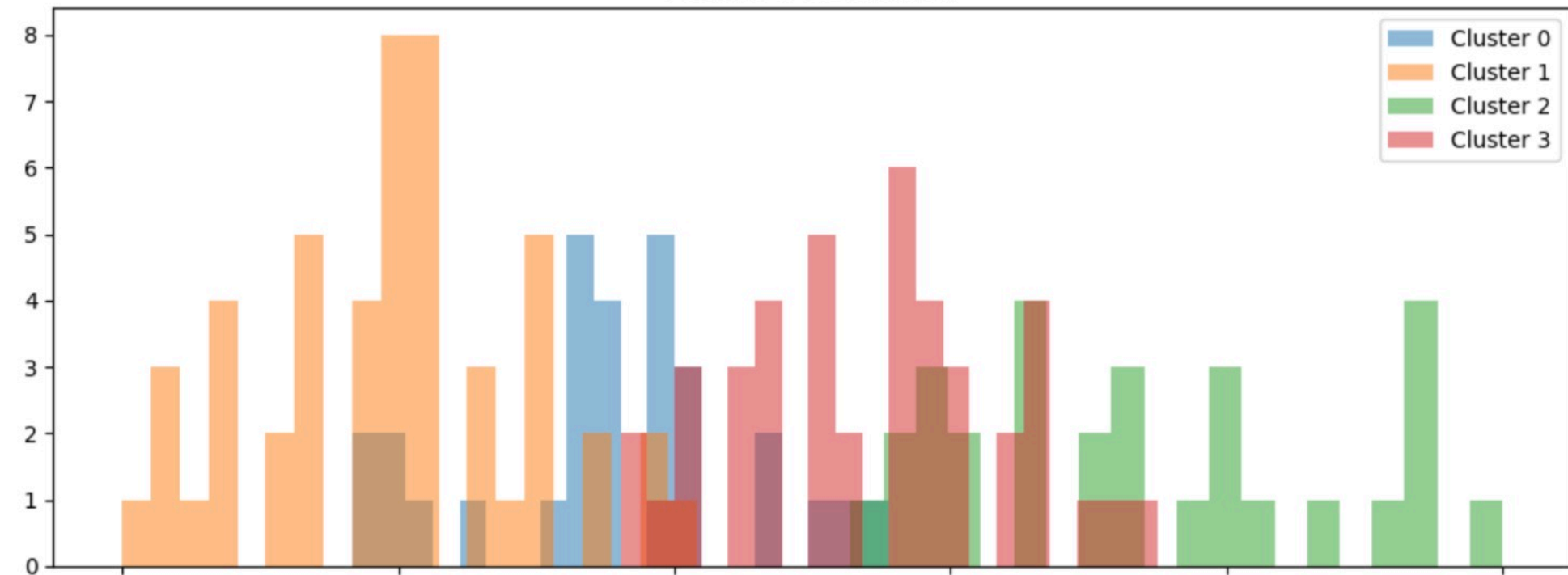


3D Scatter - K-Mean Clustering - No Data Processing - 3 clusters

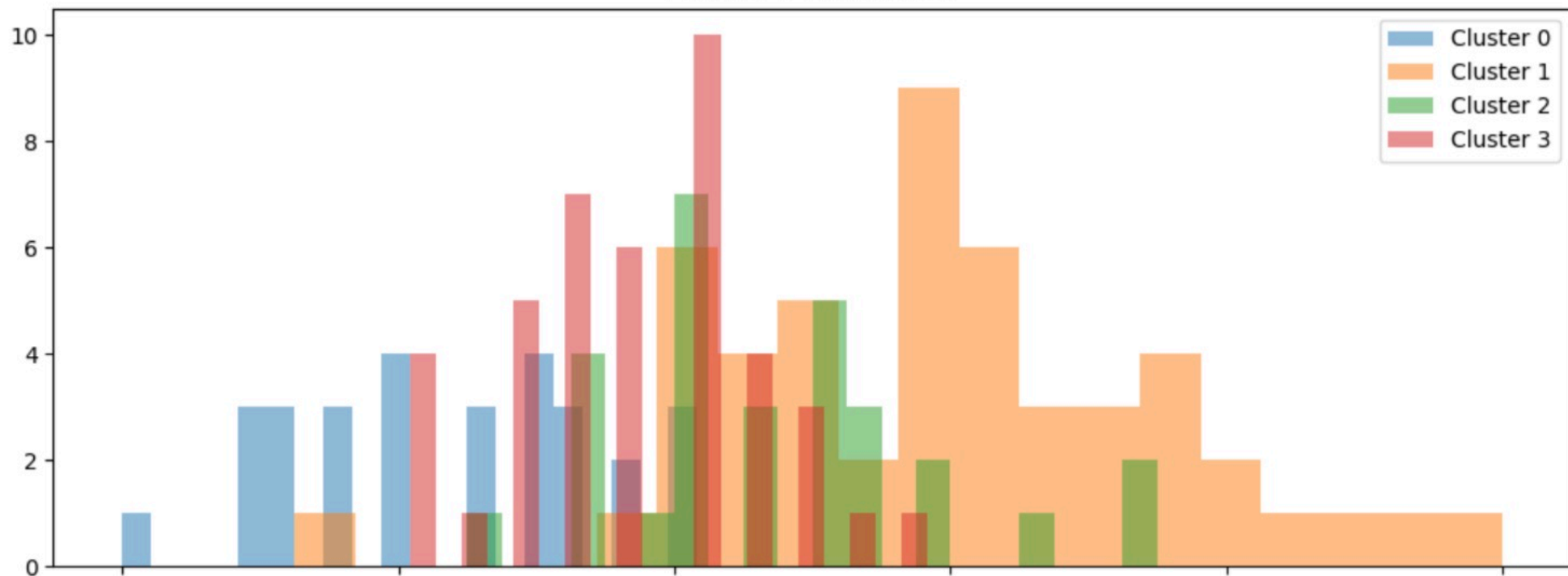


# Distribution - K-Mean Clustering - Using Normalization - 4 clusters

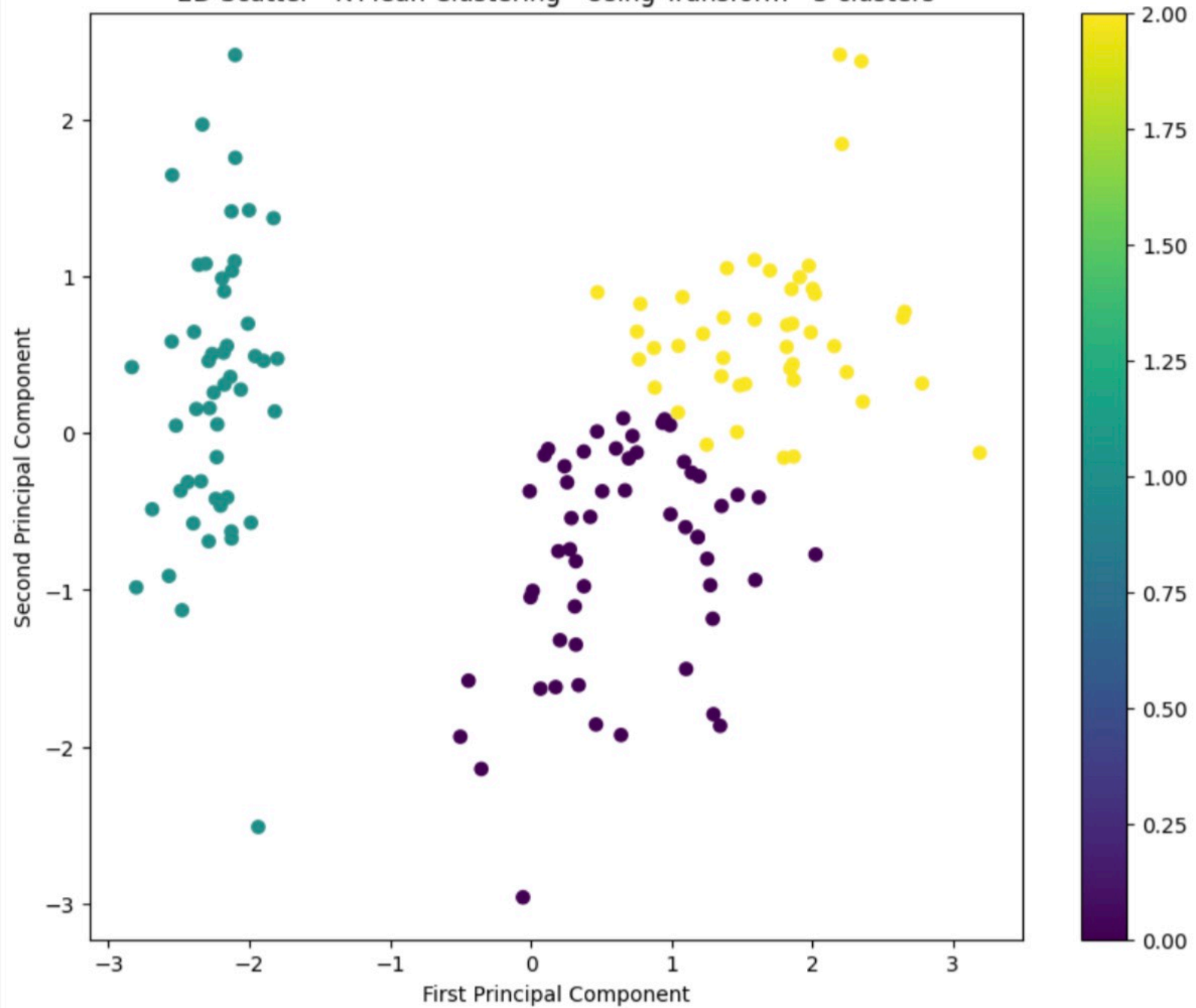
## Feature 1 Distribution



## Feature 2 Distribution

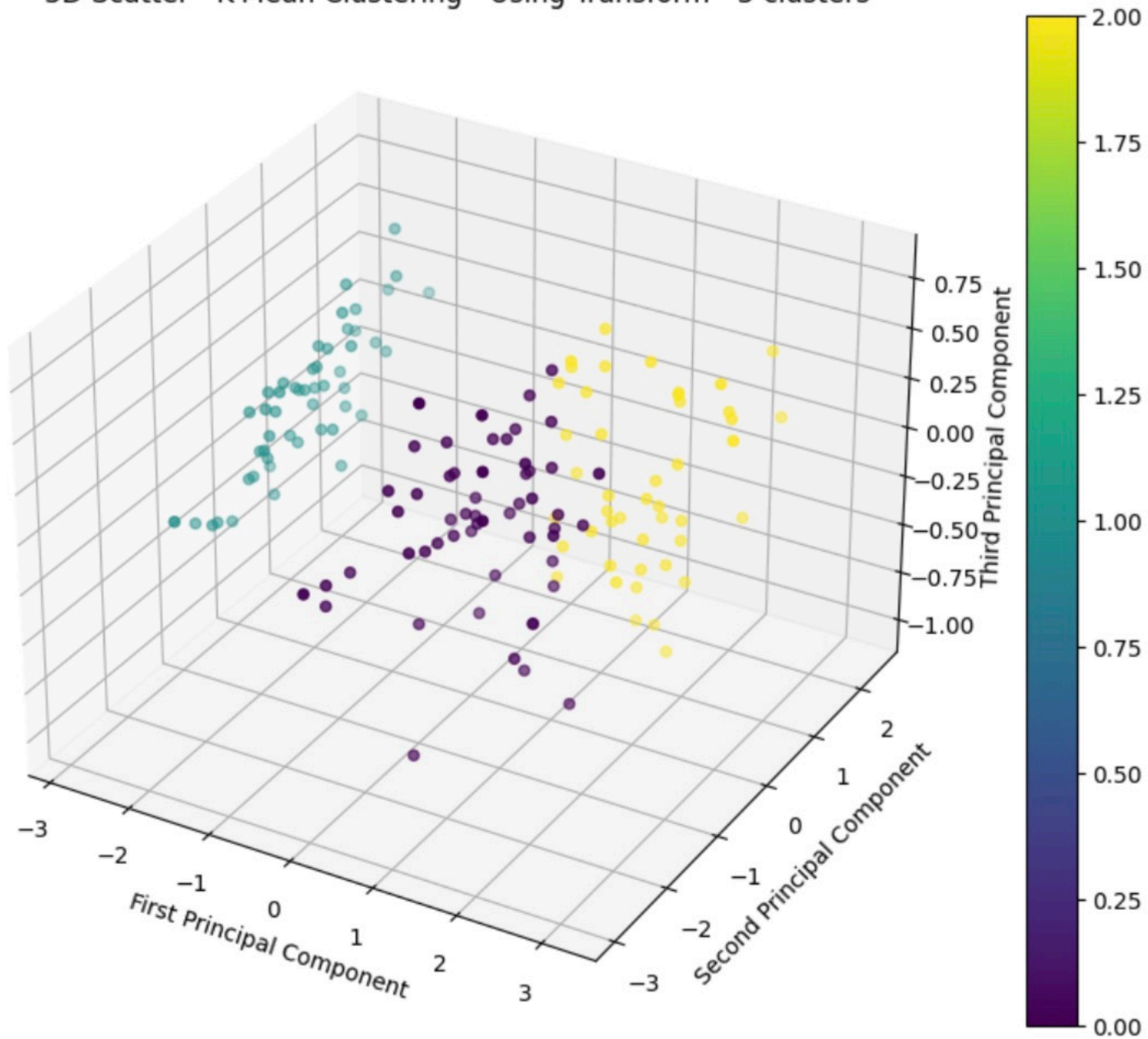


2D Scatter - K-Mean Clustering - Using Transform - 3 clusters

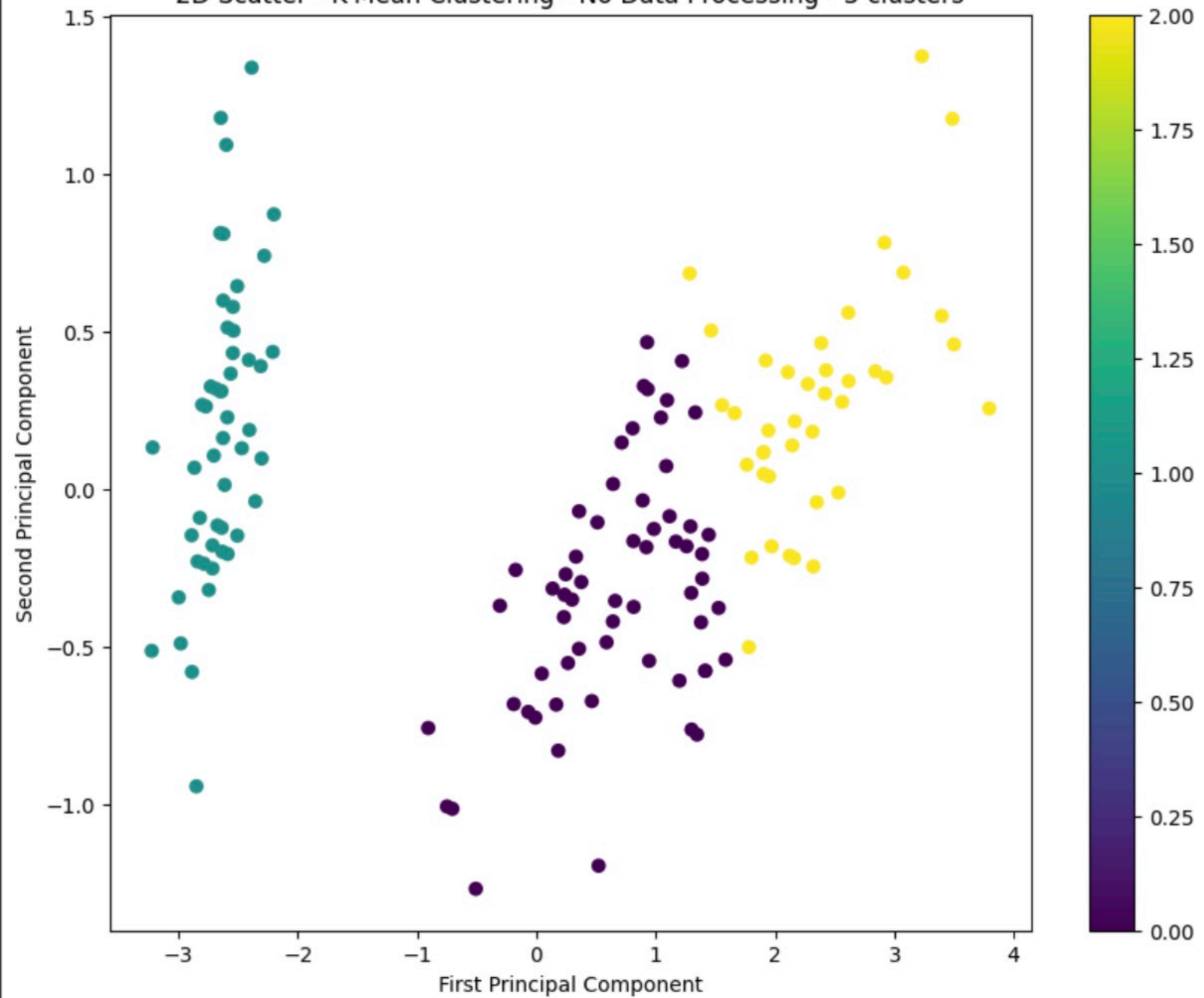




3D Scatter - K-Mean Clustering - Using Transform - 3 clusters



2D Scatter - K-Mean Clustering - No Data Processing - 3 clusters



2D Cluster PCA Plot

