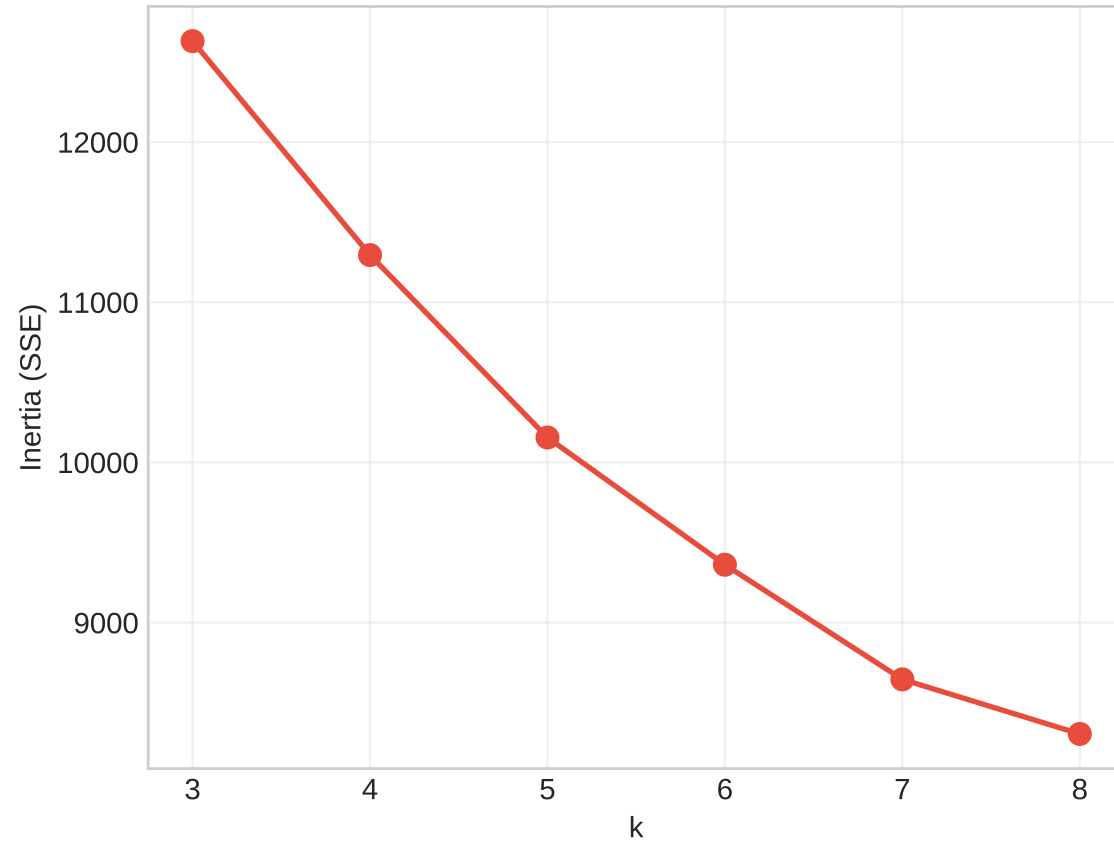
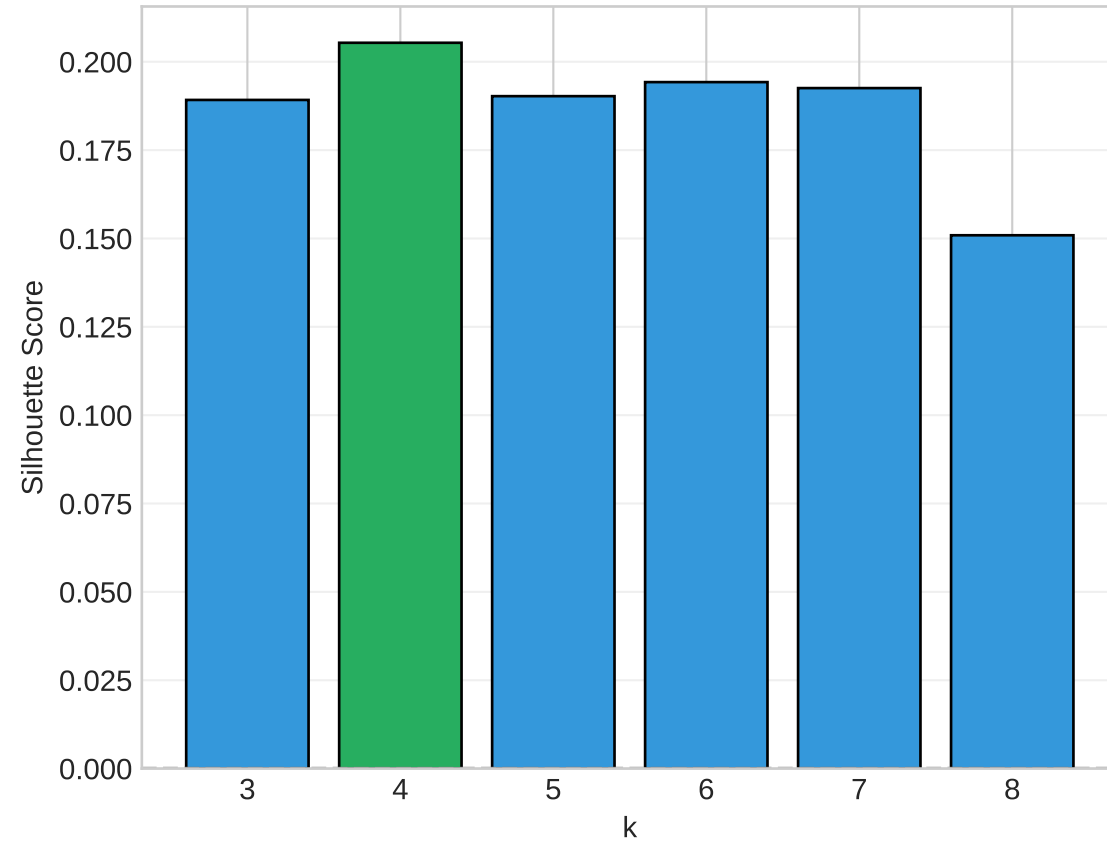


## Cluster Number Selection: Multi-Criteria Analysis

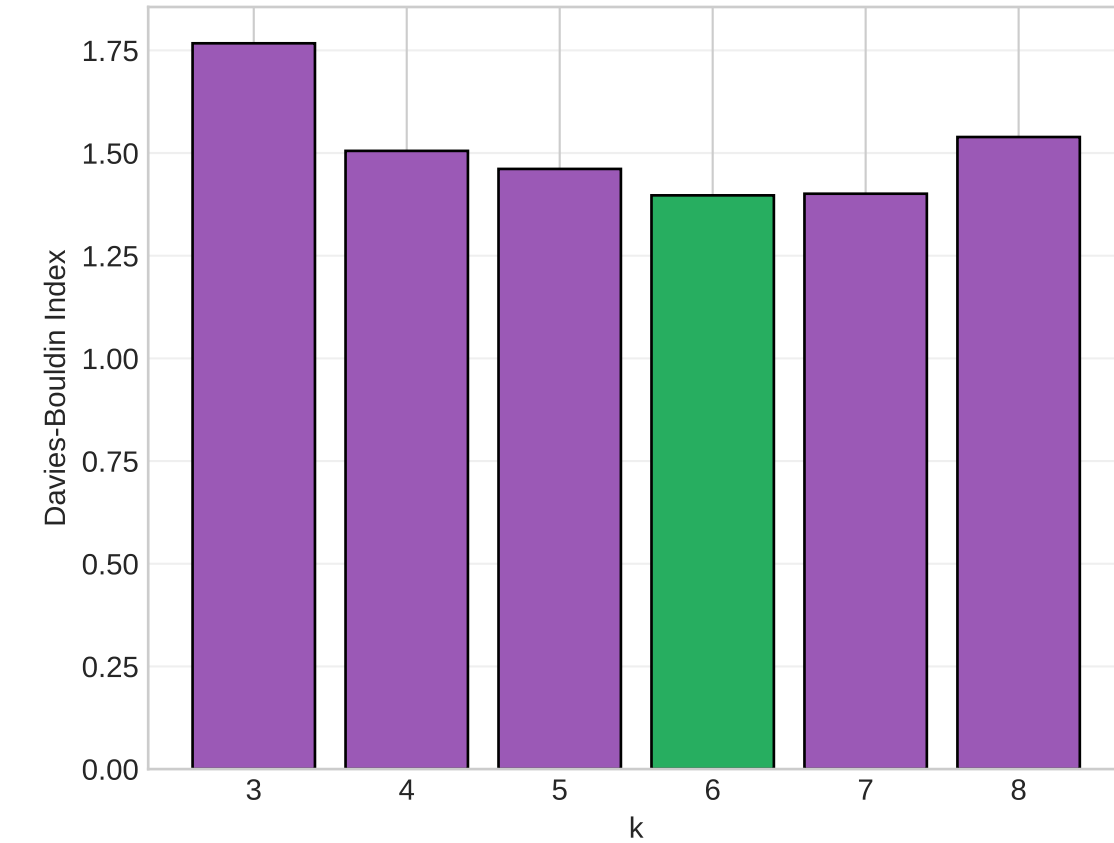
Elbow Curve (lower = tighter clusters)



Silhouette Score (higher = better separation)



Davies-Bouldin Index (lower = better)



Calinski-Harabasz Index (higher = better)

