Path\_PCA

A graph of a number of clusters

Description automatically generated

A graph of different colored bars

Description automatically generated with medium confidence

Optimal is 4 clusters

A graph of different colored bars

Description automatically generated

PGE UMAP DATA

A graph of a number of clusters

Description automatically generated

A graph with different colored bars

Description automatically generated

A graph of different colored bars

Description automatically generated with medium confidence

Vgg pca feature

Either 5 or 8

A graph of a number of clusters

Description automatically generated

A graph with different colored bars

Description automatically generated

A graph with different colored bars

Description automatically generatedA graph with different colored bars

Description automatically generated

8 because the clusters are more homogeneous than the clusters at 5

A graph of a graph of a number of clusters

Description automatically generated

A graph with different colored bars

Description automatically generated with medium confidence

A graph with different colored bars

Description automatically generated

This and not 4 because this number of clusters divides more evenly the data that is at the first cluster when K=4. Even f it creates a duplicate homogeneity in 2&5 at k=6

A graph with different colored squares

Description automatically generated

A graph of different colored squares

Description automatically generated

A graph with different colored squares

Description automatically generated

A graph with different colored squares

Description automatically generated

A graph of different colored squares

Description automatically generated with medium confidence

A graph of different colored squares

Description automatically generated with medium confidence

A graph with different colored squares

Description automatically generated with medium confidence

A graph of different colored squares

Description automatically generated with medium confidence

A graph with different colored bars

Description automatically generated with medium confidence

A graph of different colored squares

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph with different colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph of multiple colored bars

Description automatically generated with medium confidence

A graph of multiple colored lines

Description automatically generated with medium confidence

A graph of different colored bars

Description automatically generated with medium confidence

A graph with different colored lines

Description automatically generated with medium confidence

A graph of different colored lines

Description automatically generated with medium confidence

A graph of different types of graphs

Description automatically generated with medium confidence

Best Cluster Size and Score for PGE (Silhouette): {'size': 2, 'score': 0.45089296}

Best Cluster Size and Score for PGE (V-measure): {'size': 11, 'score': 0.6303839325933294}

Best Cluster Size and Score for VGG16 (Silhouette): {'size': 3, 'score': 0.44442314}

Best Cluster Size and Score for VGG16 (V-measure): {'size': 14, 'score': 0.572529446717271}