

Cardinal Personalities Analysis Report

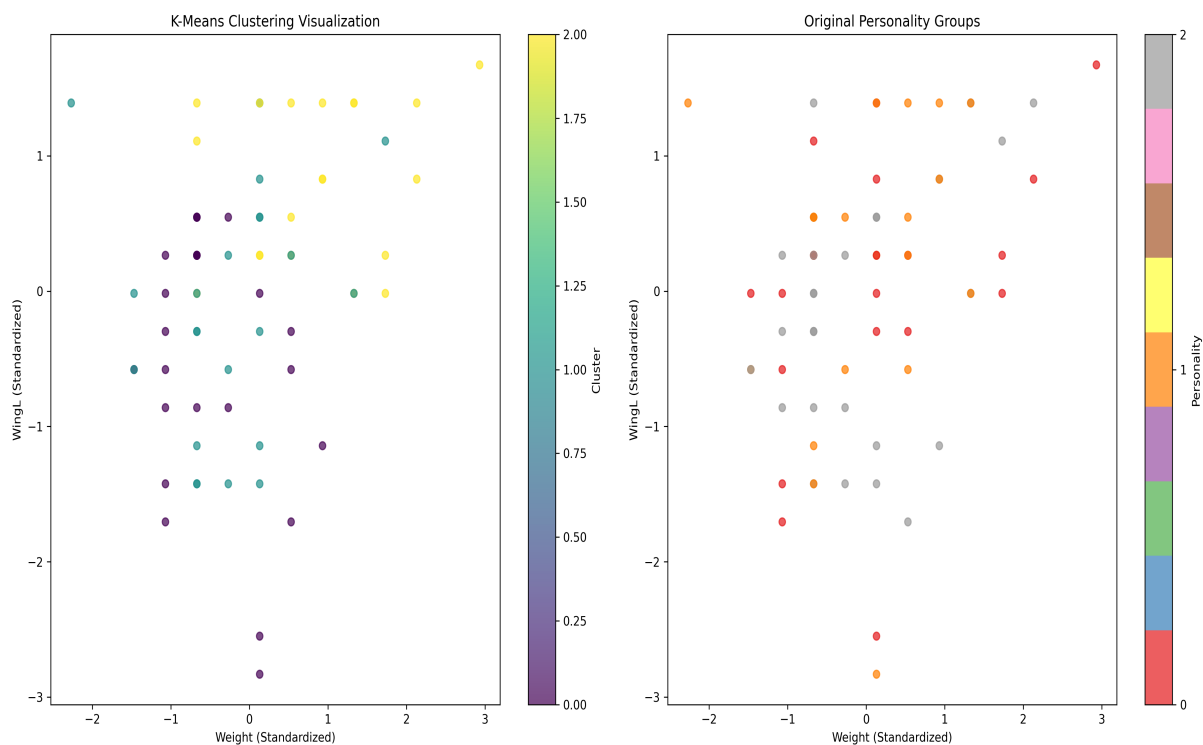


Figure 1: Cluster Analysis Results

Left: K-means clustering visualization Right: Original personality groups

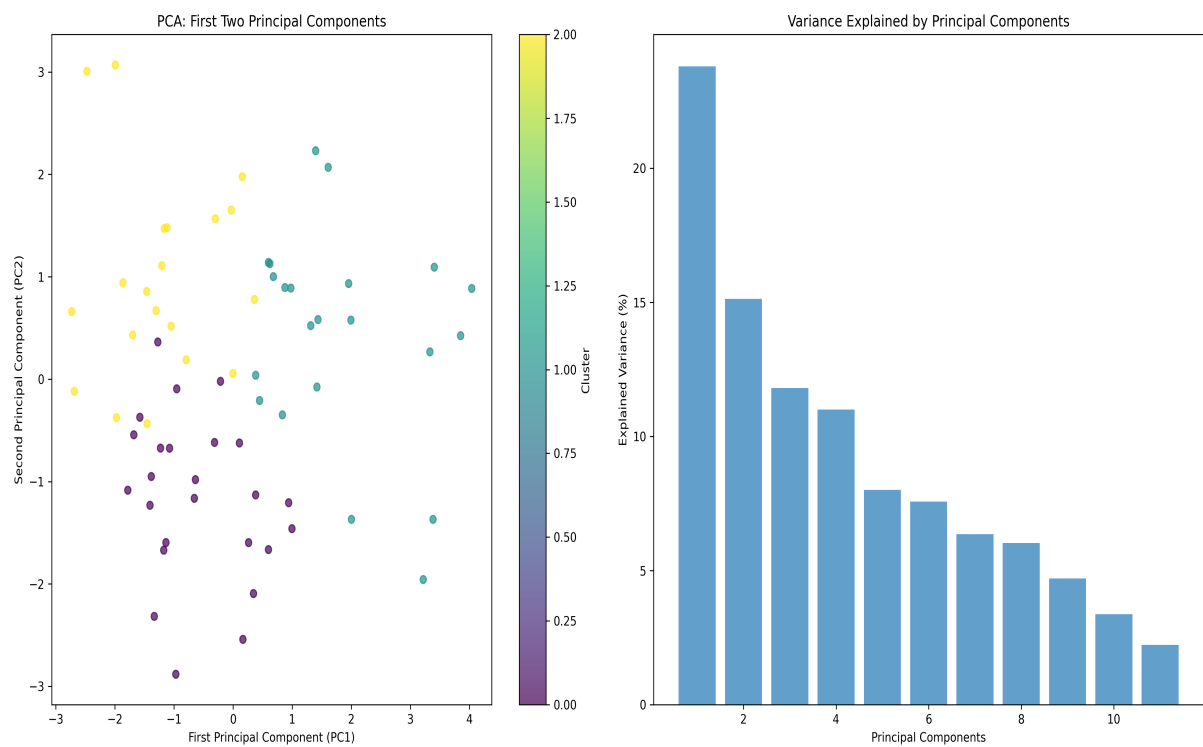


Figure 2: Principal Component Analysis

Left: First two principal components Right: Explained variance by components

Analysis Results

Clustering Results:

Cluster 0:

Standard Bird: 40.00%
A Pretty Chill Bird: 32.00%
Angry Bird: 28.00%

Cluster 1:

Standard Bird: 54.55%
Angry Bird: 27.27%
A Pretty Chill Bird: 18.18%

Cluster 2:

A Pretty Chill Bird: 35.00%
Angry Bird: 35.00%
Standard Bird: 30.00%

Chi-square test results:

χ^2 statistic: 3.03
p-value: 0.5532

PCA Results:

PC1 explained variance: 23.80%
PC2 explained variance: 15.13%
PC3 explained variance: 11.80%