

Behavioral Analysis Report

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Executive Summary

This report presents a comprehensive analysis of behavioral and physiological data using clustering and principal component analysis (PCA). The analysis identified distinct behavioral patterns and their relationships with physiological characteristics.

Cluster Analysis Results

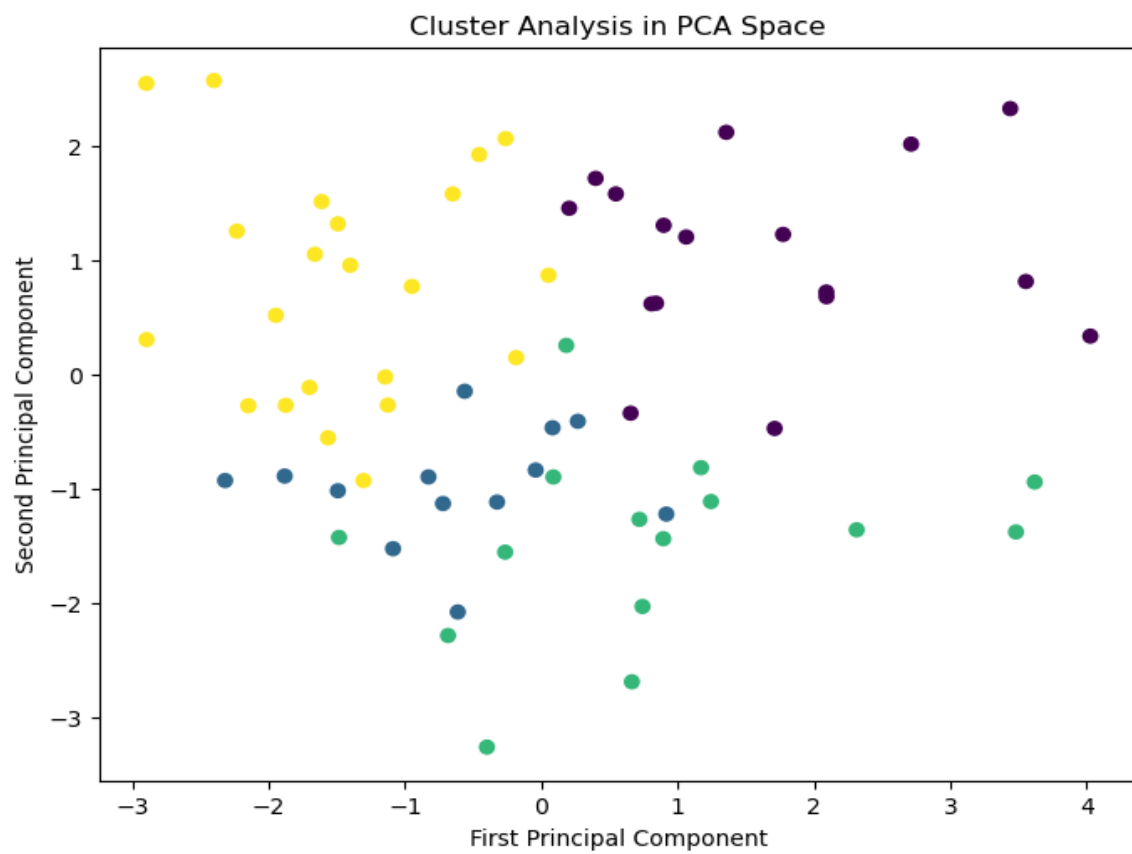


Figure: Cluster Pca

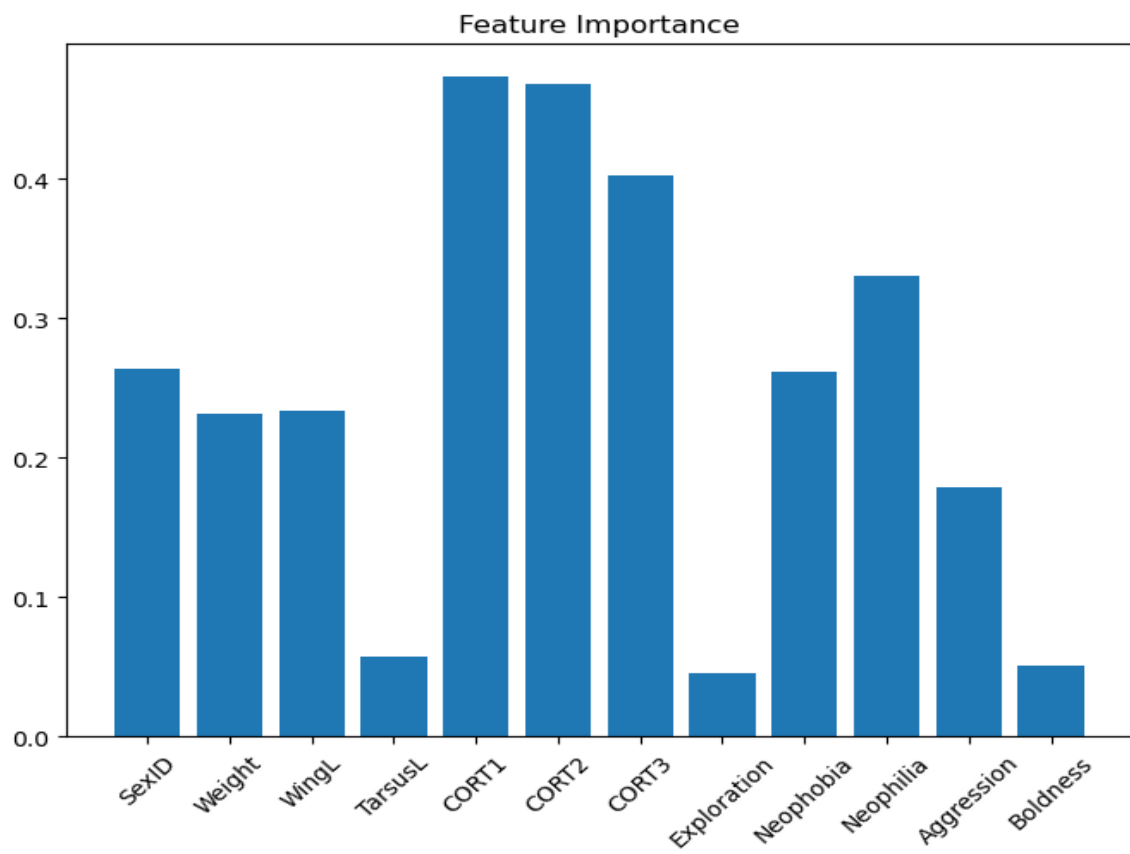


Figure: Feature Importance

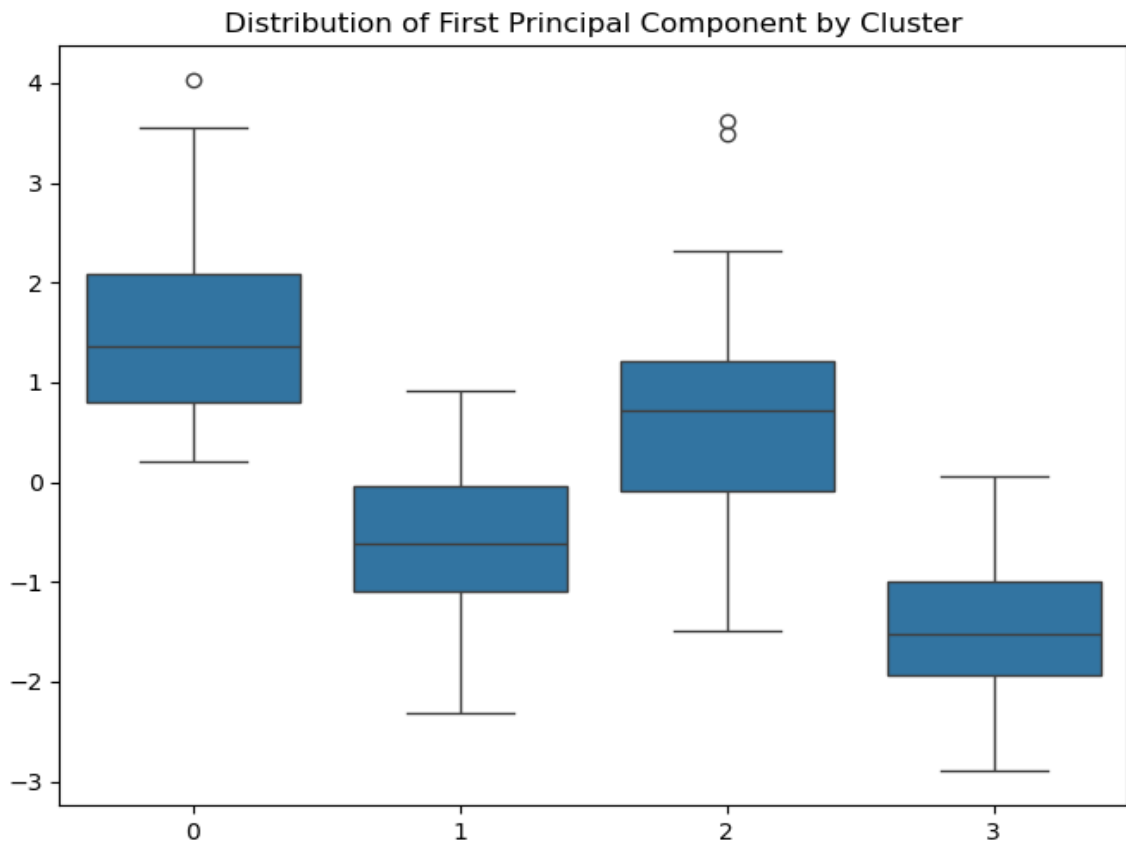


Figure: Detailed Analysis

Statistical Analysis

PCA Variance Explained

Component	Variance Explained
PC1	0.228
PC2	0.150
PC3	0.118
PC4	0.101
PC5	0.083

Cluster Statistics

SexID	Weight	WingL	TarsusL	CORT1	CORT2	CORT3	Exploratio	Neophobia	Neophilia	Aggression	Boldness
-0.16	-0.10	-0.02	0.40	0.68	0.92	0.87	-0.25	1.09	0.64	0.00	-0.45
-0.52	0.29	-0.86	0.20	-0.57	-0.48	-0.52	-0.08	-0.35	-0.63	-0.55	0.27
-0.59	-0.88	-0.45	-0.90	0.61	-0.09	0.01	0.09	-0.62	0.56	-0.30	0.49
0.83	0.51	0.83	0.19	-0.60	-0.36	-0.37	0.18	-0.22	-0.50	0.52	-0.14