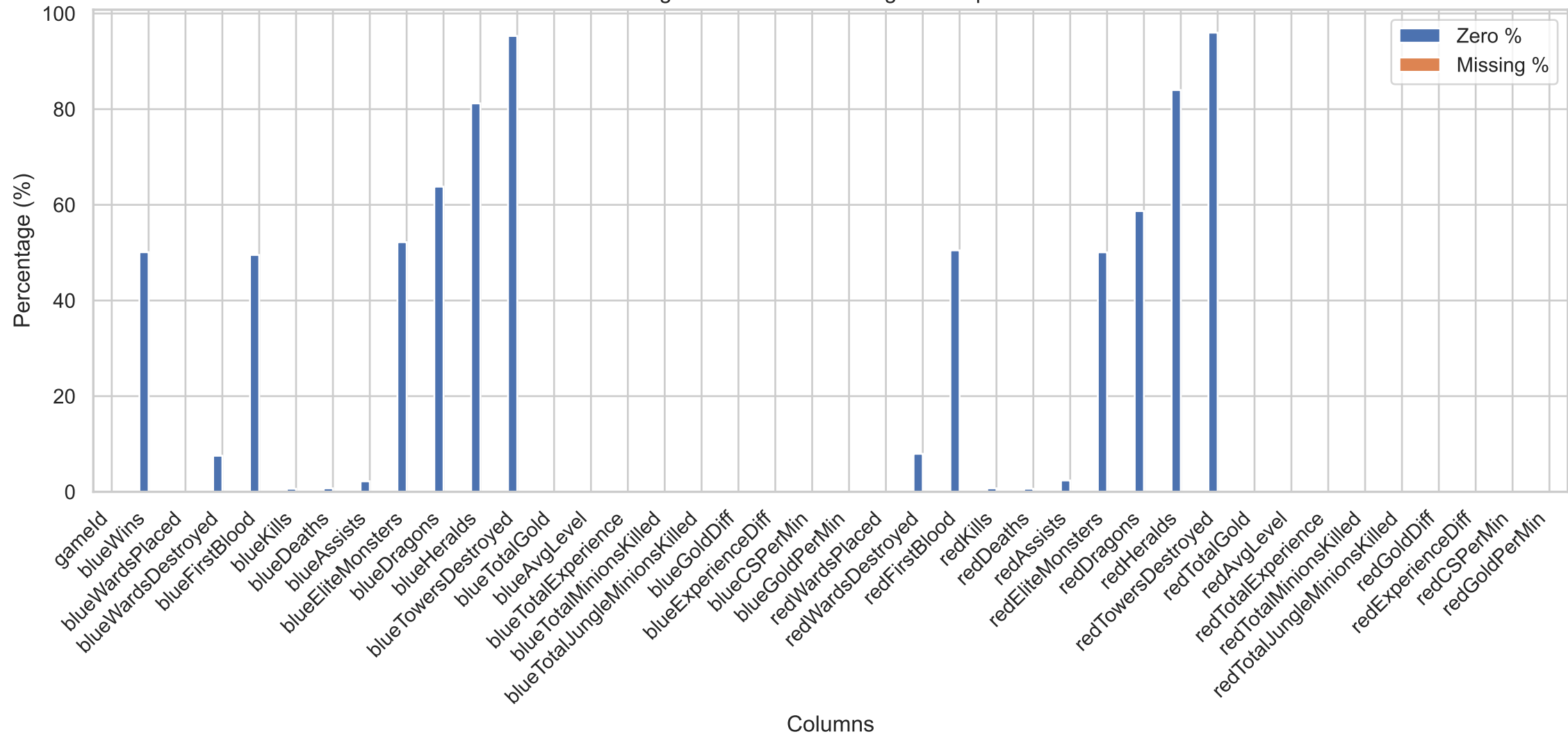


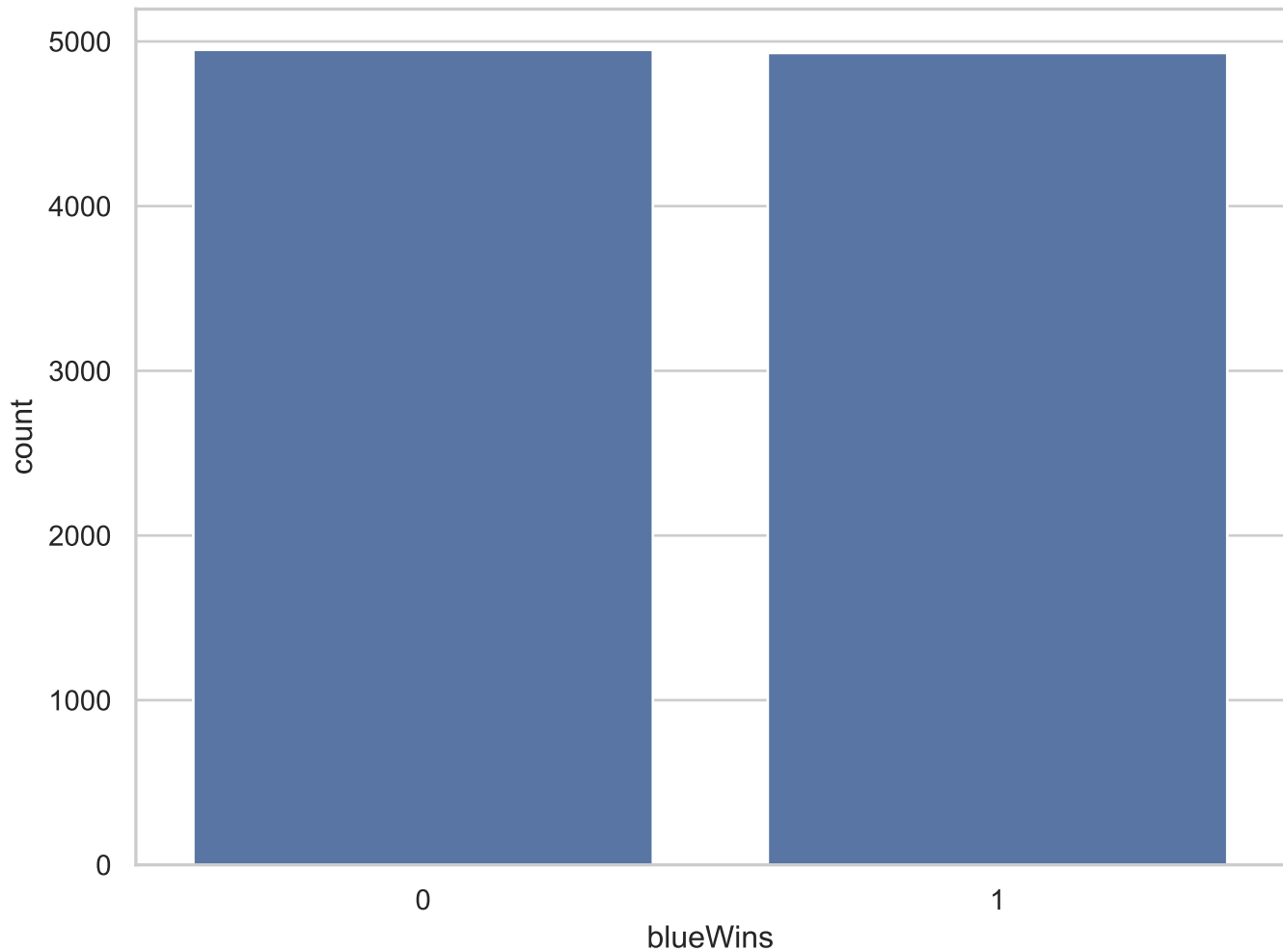
Data Quality Check

Percentage of Zeros and Missing Values per Column

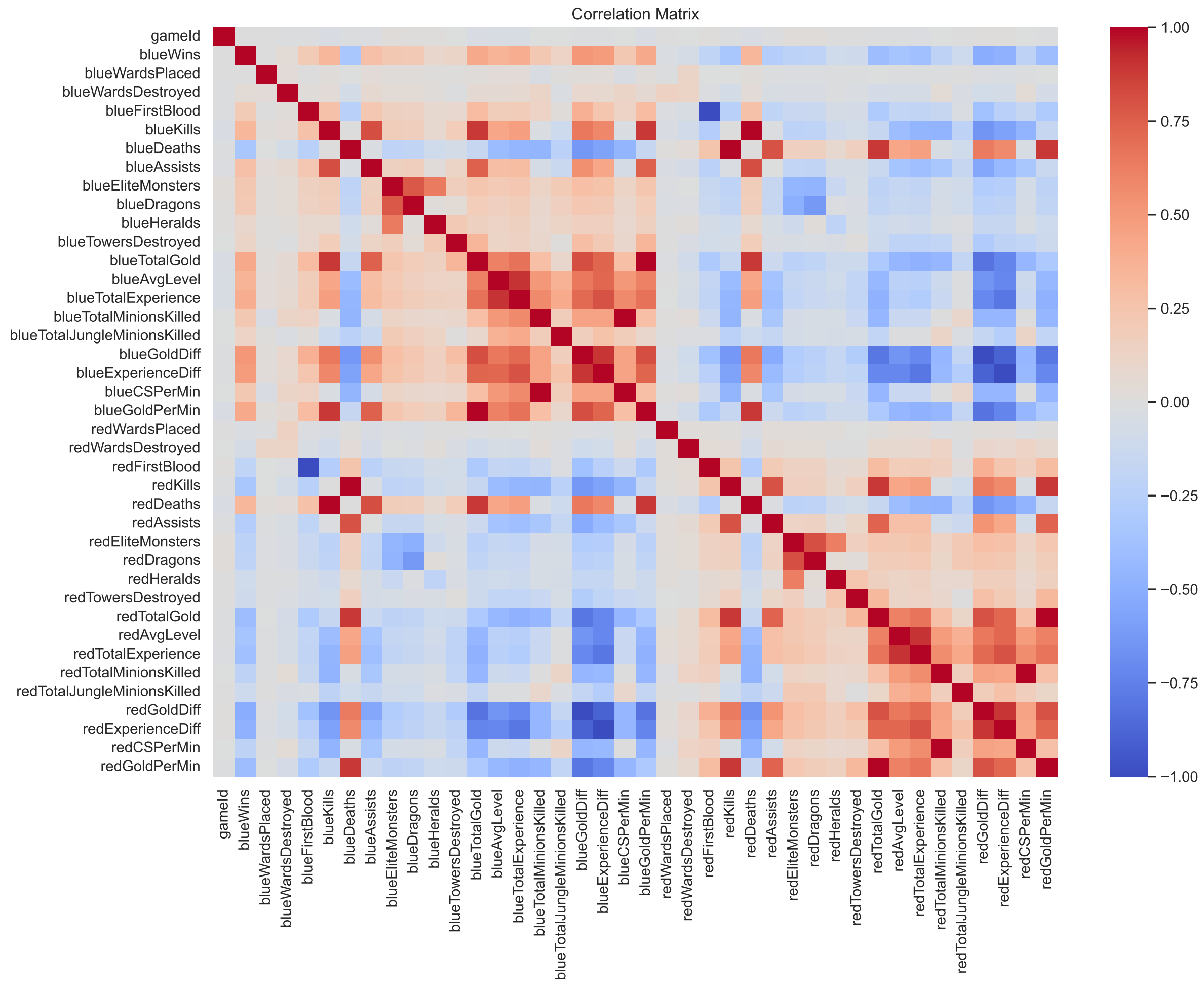


Class Balance

Class Distribution of Match Outcomes

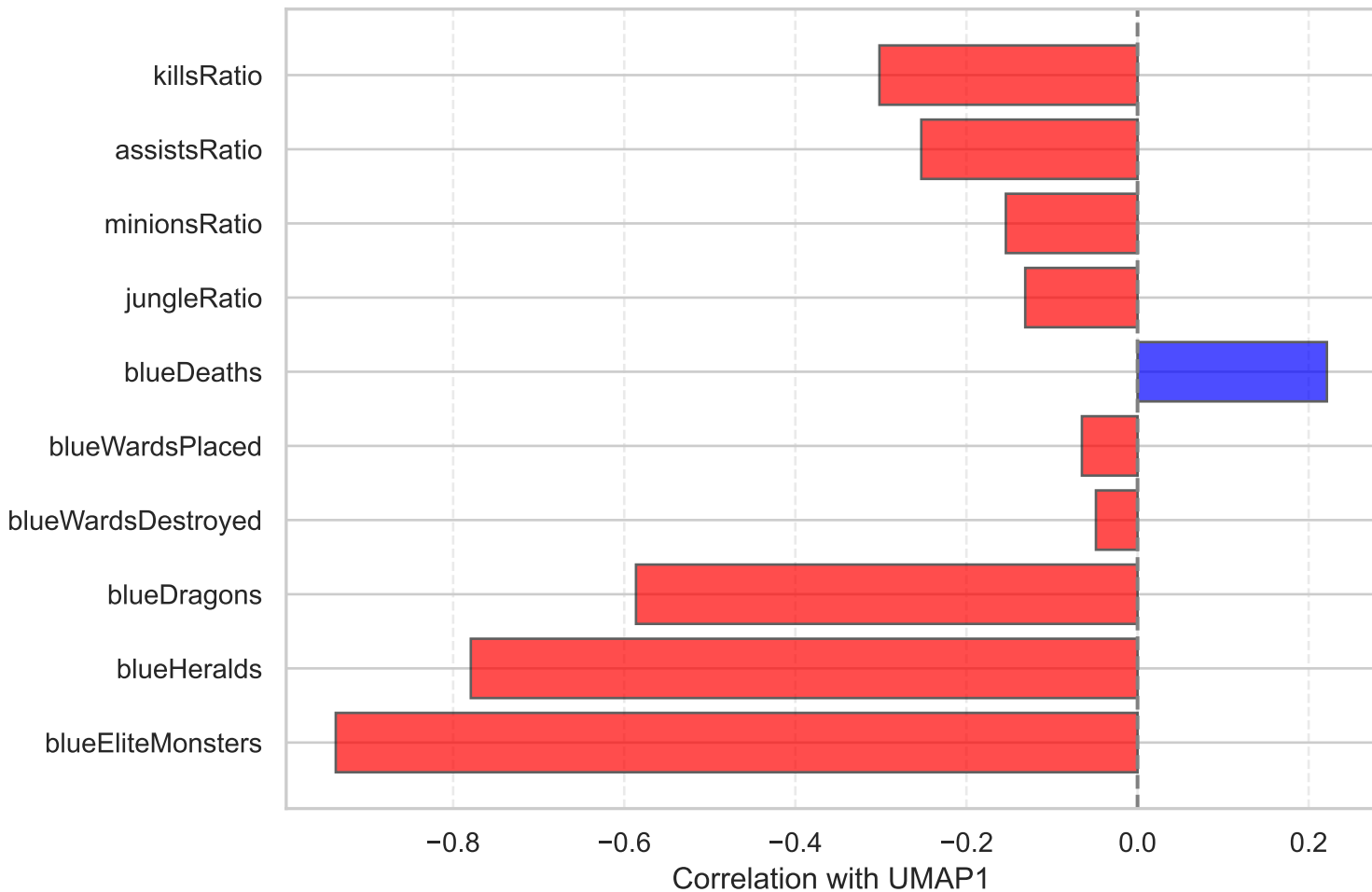


Correlation Matrix

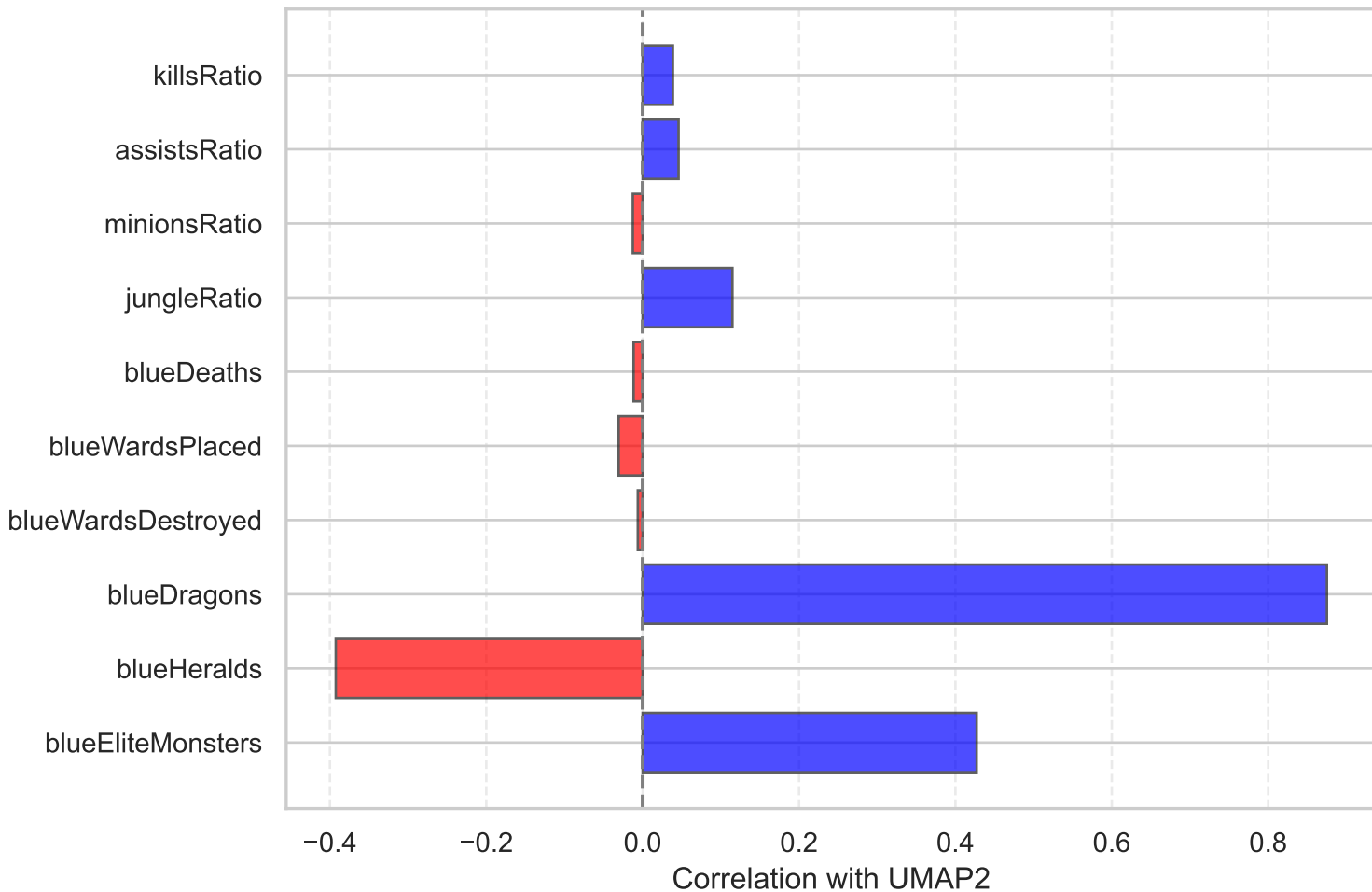


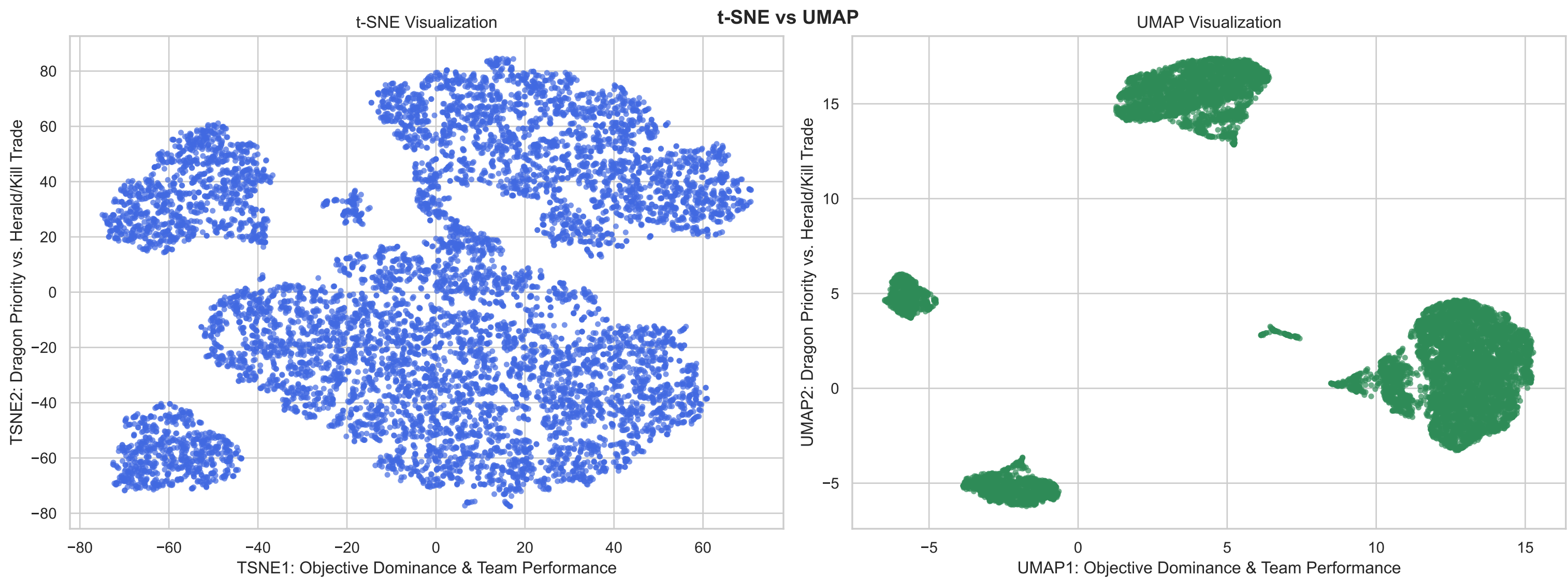
Metric Distributions

Correlations UMAP1
UMAP Feature Correlations - UMAP1

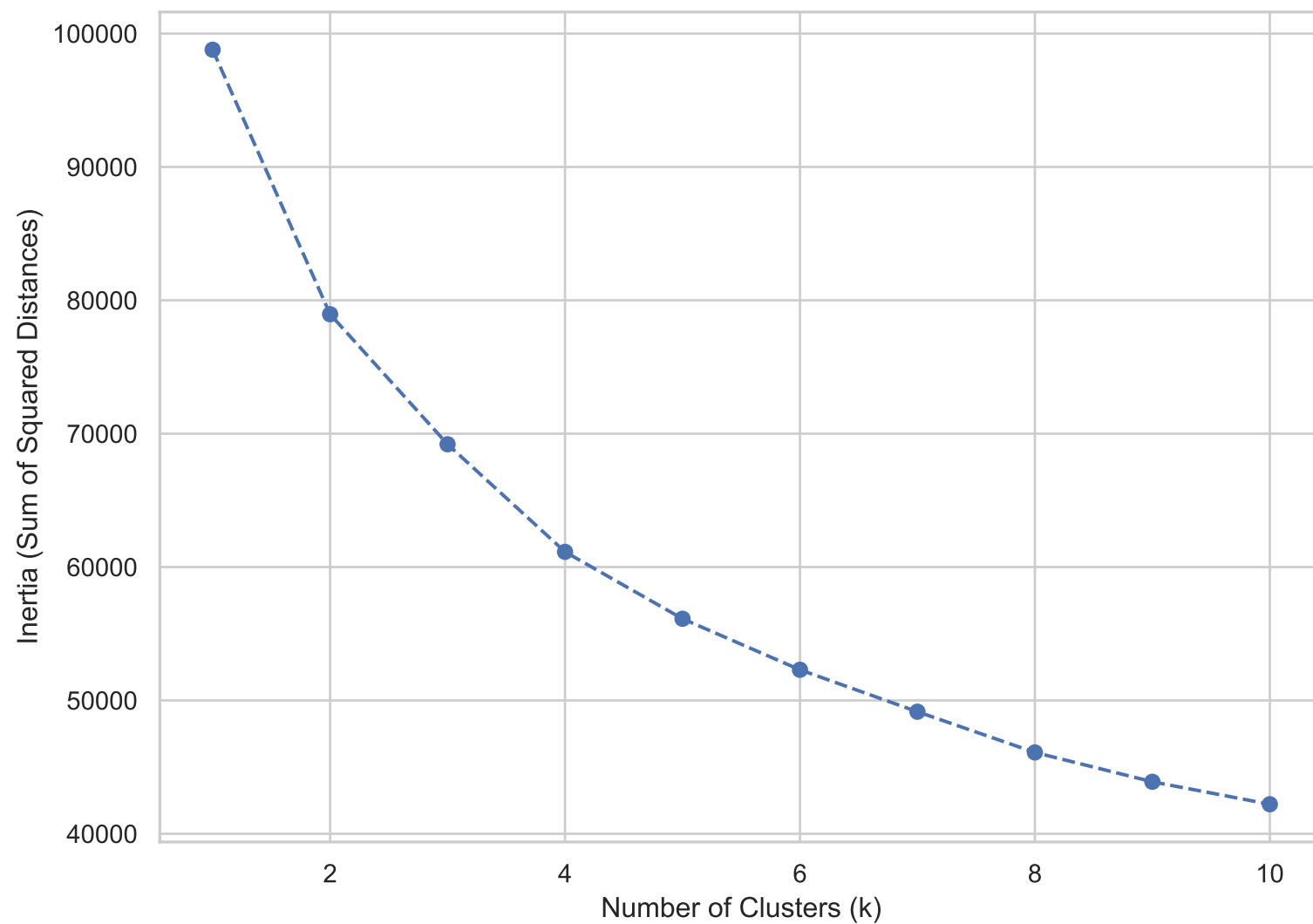


Correlations UMAP2
UMAP Feature Correlations - UMAP2

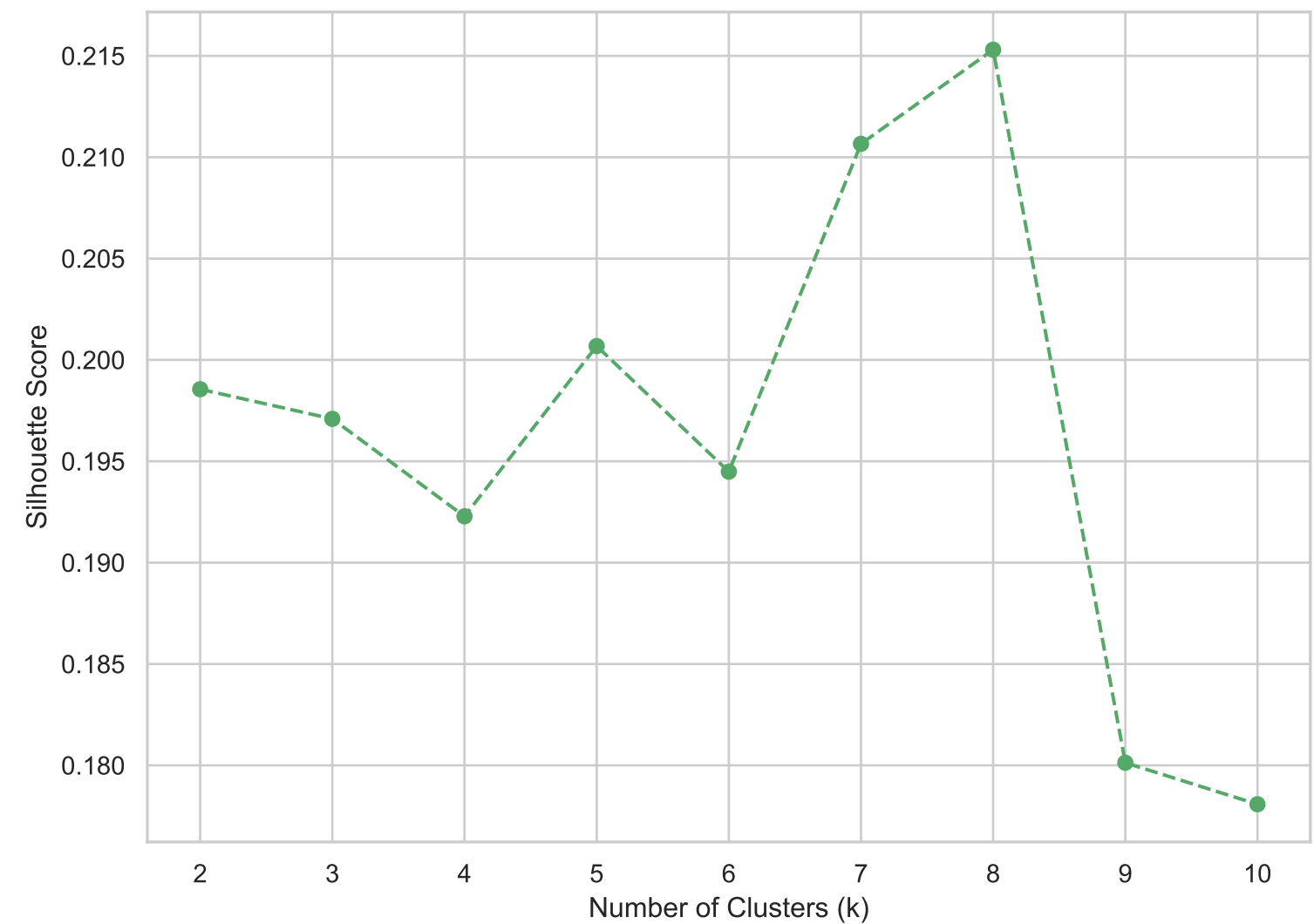




Elbow Method

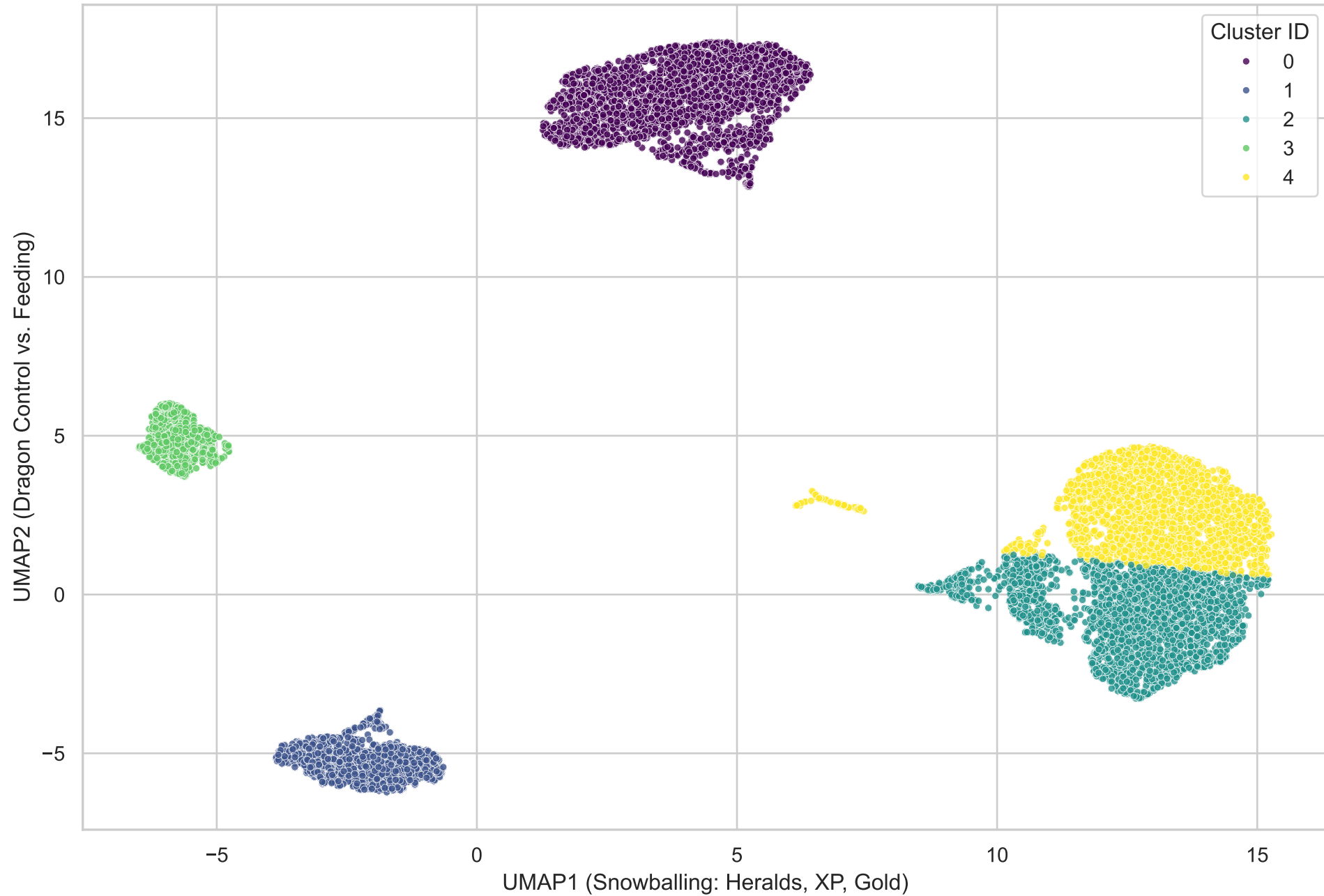


Clustering Optimization



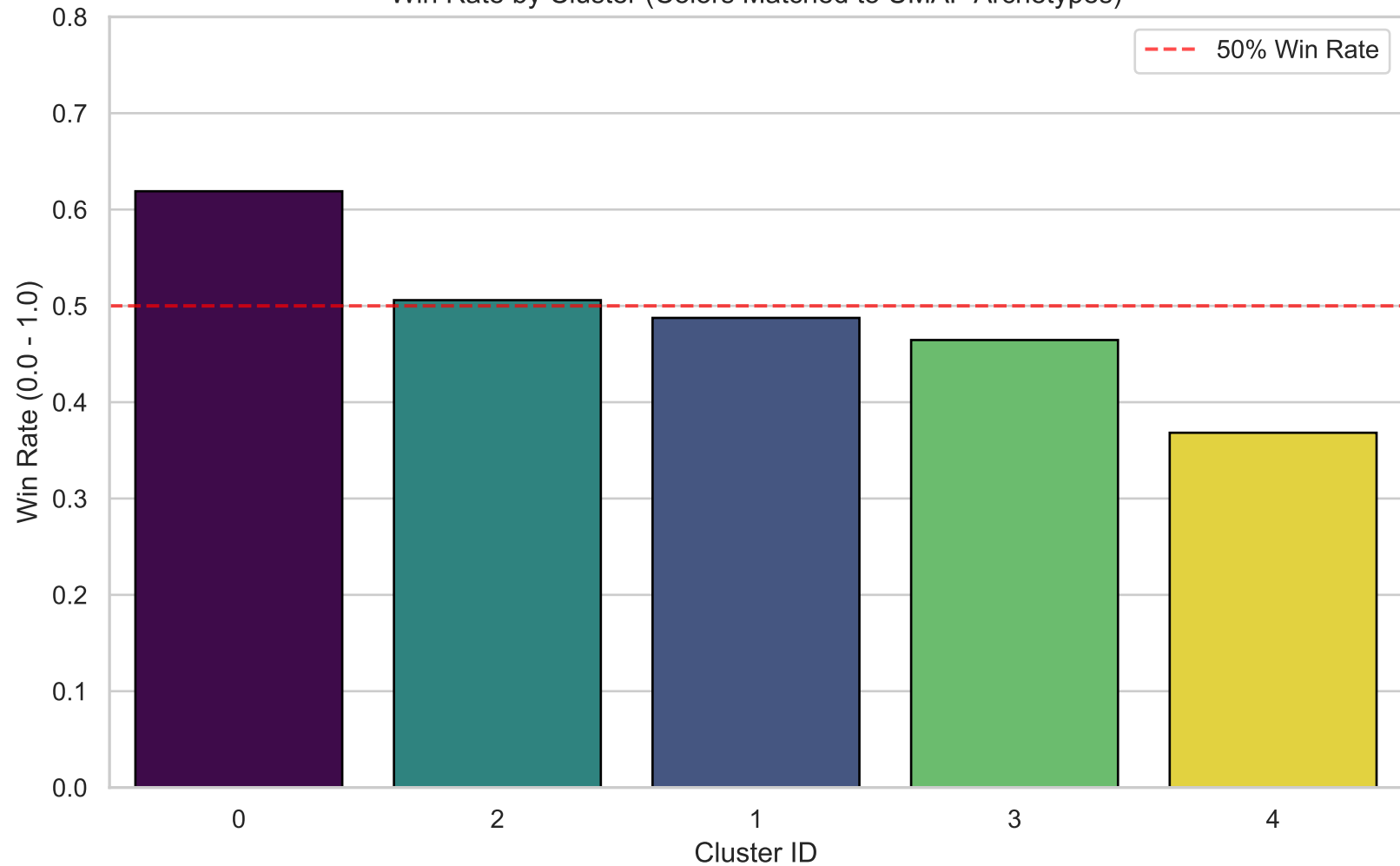
UMAP Clusters

Refined Game Archetypes: Clustering on UMAP Output

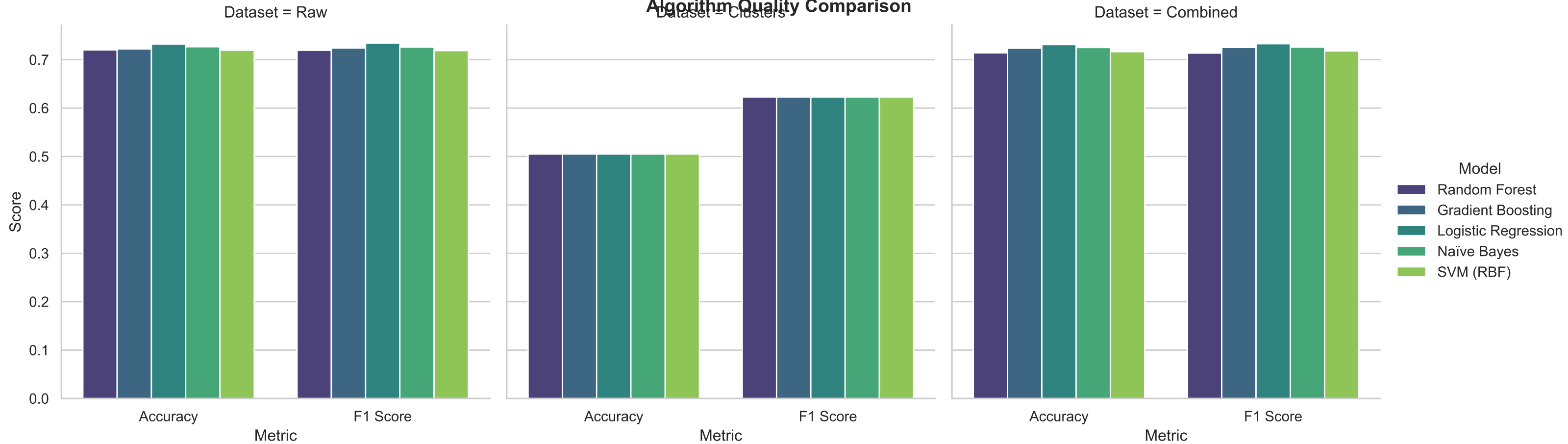


Win Rate by Cluster

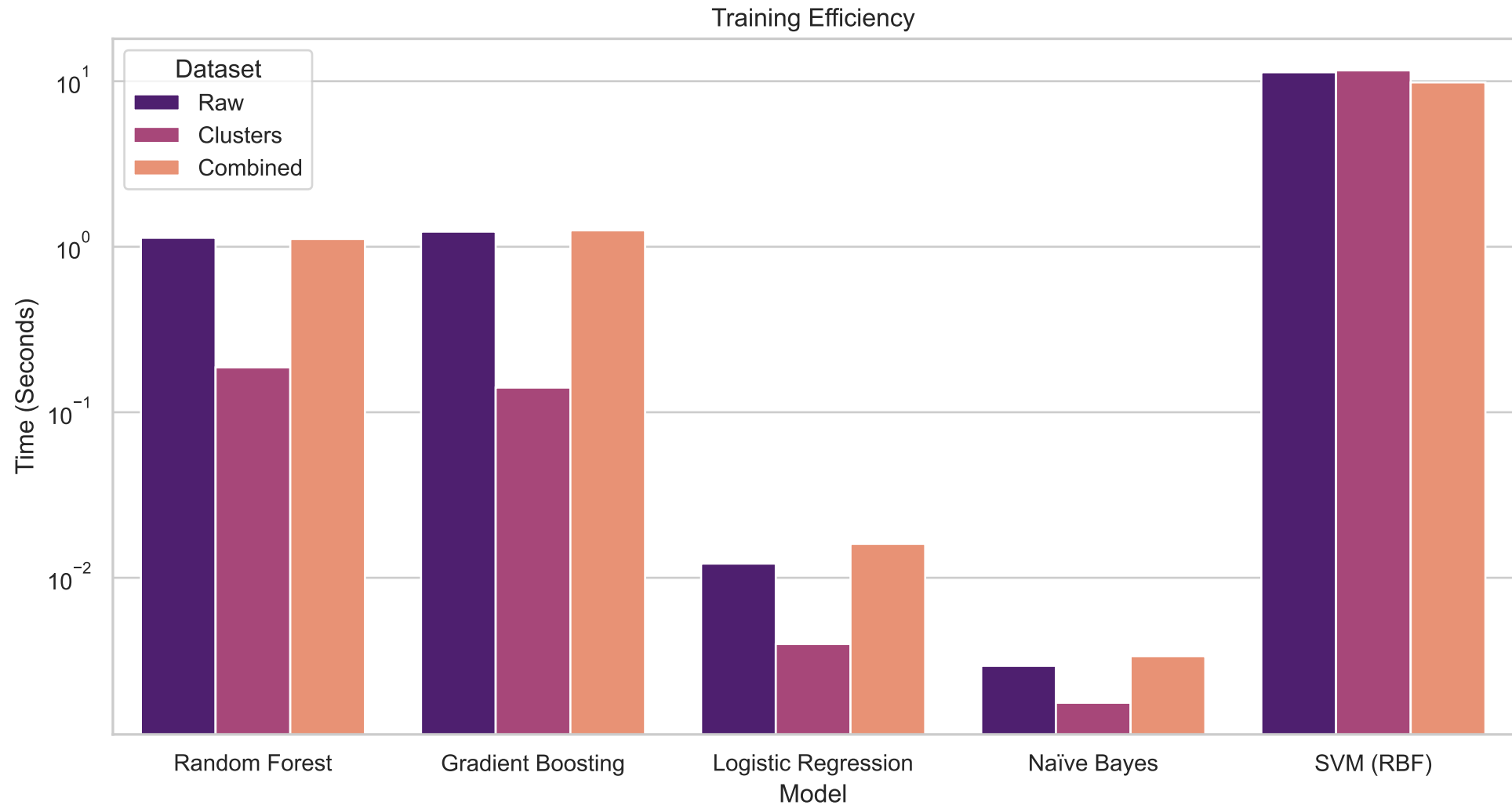
Win Rate by Cluster (Colors Matched to UMAP Archetypes)



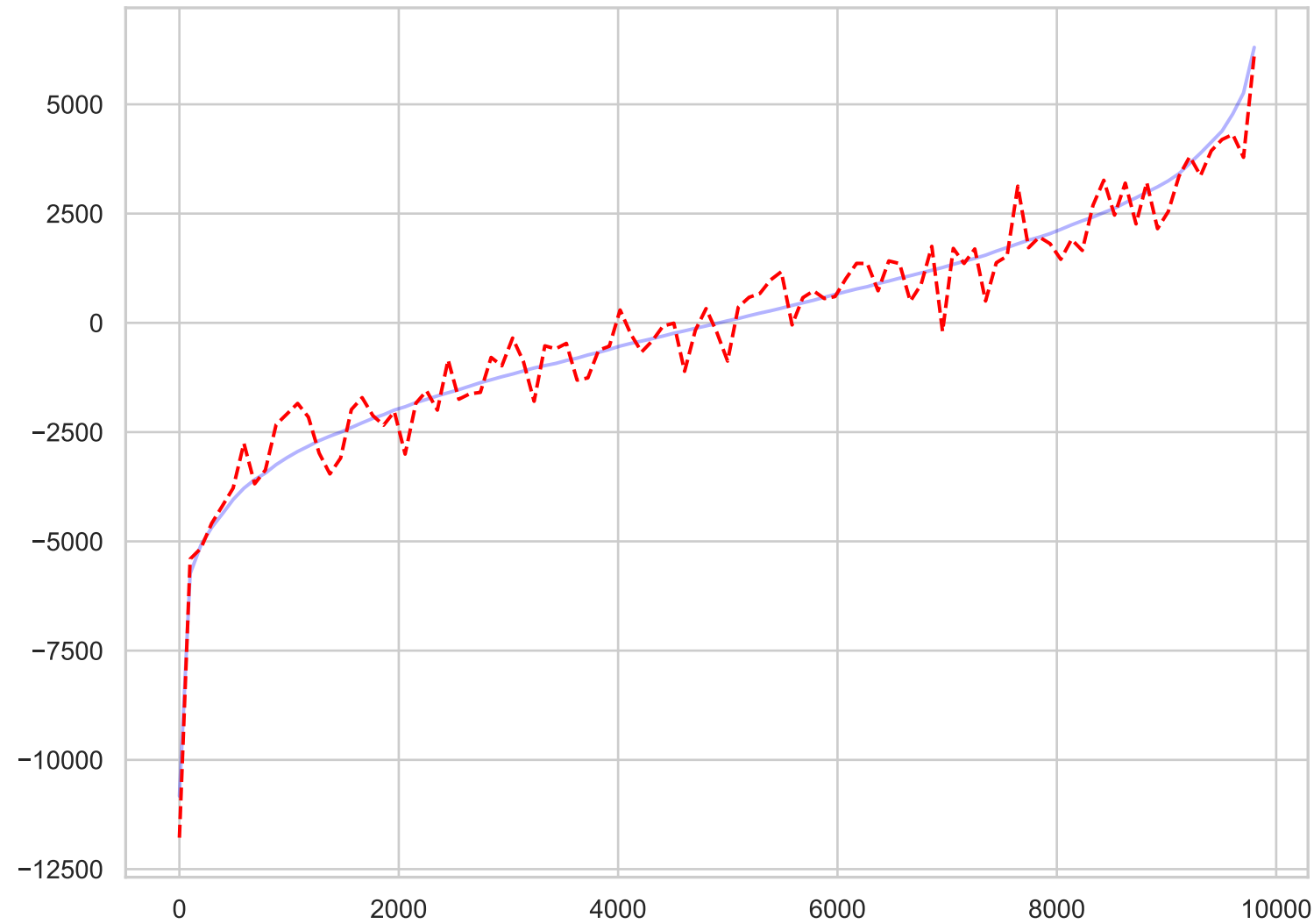
Algorithm Quality Comparison



Training Efficiency



With WinProb (MAE: 412 | R2: 0.9546)



Regression Analysis

Without WinProb (MAE: 412 | R2: 0.9545)

