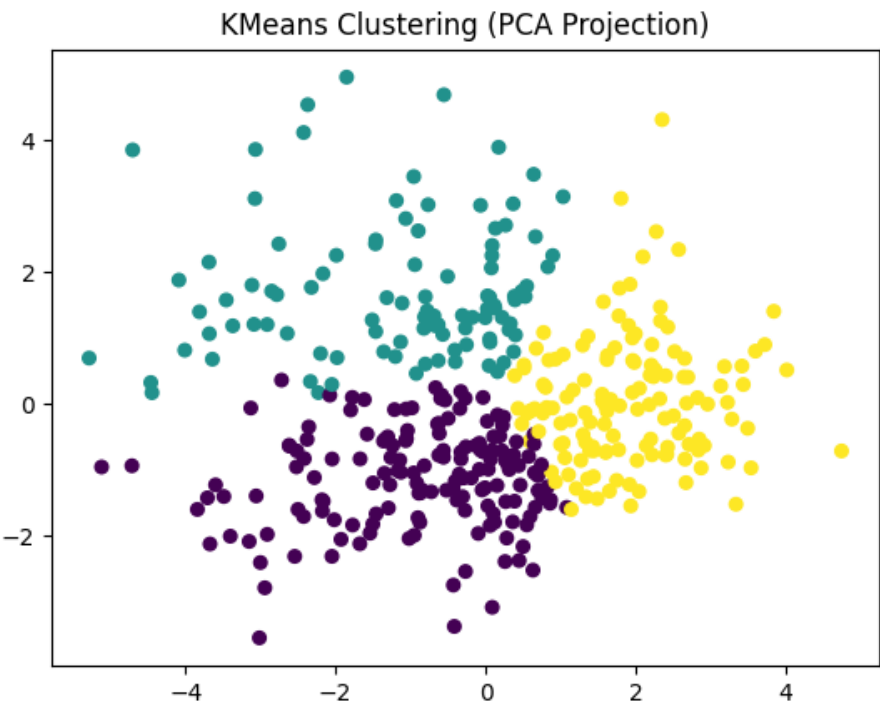# Student Dataset Analysis Report

Summary Statistics

Column Min Max Q1 Q3 IQR age 15 22 16.0 18.0 2.0 Medu 0 4 2.0 4.0 2.0 Fedu 0 4 2.0 3.0 1.0 traveltime 1 4 1.0 2.0 1.0 studytime 1 4 1.0 2.0 1.0 failures 0 3 0.0 0.0 0.0 famrel 1 5 4.0 5.0 1.0 freetime 1 5 3.0 4.0 1.0 goout 1 5 2.0 4.0 2.0 Dalc 1 5 1.0 2.0 1.0 Walc 1 5 1.0 3.0 2.0 health 1 5 3.0 5.0 2.0 absences 0 75 0.0 8.0 8.0 G1 3 19 8.0 13.0 5.0 G2 0 19 9.0 13.0 4.0 G3 0 20 8.0 14.0 6.0

KMeans Clustering (3 clusters)

KMeans Clustering (PCA Projection)

DBSCAN Clustering

DBSCAN Clustering (PCA Projection)