Call:

lm(formula = GoalDifference ~ covid + OccupancyRate + as.factor(Crowdsize) +

ForeignersShareDifference + AgeDifference + covid \* OccupancyRate +

covid \* as.factor(Crowdsize) + covid \* AgeDifference + covid \*

ForeignersShareDifference + ImportanceDifference + RatingDifference +

VAR + FoulDifference, data = full\_dataset\_alan\_standardized)

Residuals:

Min 1Q Median 3Q Max

-5.9500 -0.5558 -0.0255 0.5493 4.3559

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) -0.029741 0.027332 -1.088 0.27656

covid -0.034963 0.030677 -1.140 0.25445

OccupancyRate 0.040824 0.019196 2.127 0.03347 \*

as.factor(Crowdsize)small 0.023121 0.036807 0.628 0.52992

ForeignersShareDifference 0.017268 0.010494 1.646 0.09990 .

AgeDifference -0.004590 0.010070 -0.456 0.64856

ImportanceDifference 0.040944 0.010796 3.792 0.00015 \*\*\*

RatingDifference 0.430307 0.011419 37.683 < 2e-16 \*\*\*

VAR 0.007777 0.010191 0.763 0.44545

FoulDifference 0.047106 0.009998 4.712 2.5e-06 \*\*\*

covid:OccupancyRate -0.022223 0.019552 -1.137 0.25572

covid:as.factor(Crowdsize)small -0.002966 0.043394 -0.068 0.94552

covid:AgeDifference -0.010318 0.010039 -1.028 0.30409

covid:ForeignersShareDifference 0.001427 0.010102 0.141 0.88764

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.8896 on 8039 degrees of freedom

(83 observations deleted due to missingness)

Multiple R-squared: 0.2086, Adjusted R-squared: 0.2073

F-statistic: 163 on 13 and 8039 DF, p-value: < 2.2e-16

ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS

USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:

Level of Significance = 0.05

Call:

gvlma(x = bpath)

Value p-value Decision

Global Stat 2.528e+02 0.00000 Assumptions NOT satisfied!

Skewness 7.581e-01 0.38391 Assumptions acceptable.

Kurtosis 2.482e+02 0.00000 Assumptions NOT satisfied!

Link Function 3.826e+00 0.05046 Assumptions acceptable.

Heteroscedasticity 6.808e-03 0.93424 Assumptions acceptable.