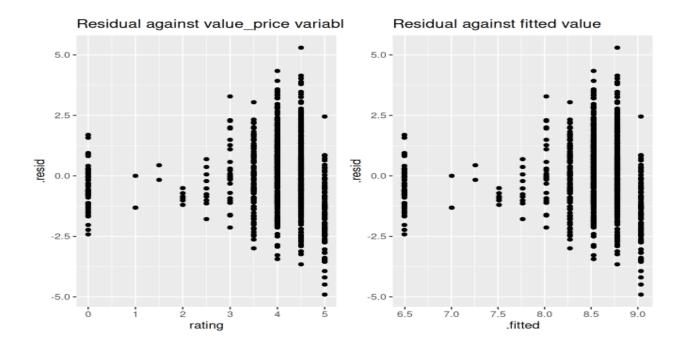
Appendix M

L.I.N.E. assumptions analysis for rating variable

Linearity Assumption for rating variable:

Both plots, Residual vs. predictor and Residual vs. fitted values, show no discernible pattern, indicating no violation of linearity assumptions. Therefore, it can be concluded that log love and rating exhibit a linear relationship, supporting linear regression techniques.

Plots of residual vs. Log price and plot residual vs. Fitted value



Independence assumption for rating variable:

The residual vs. order plot displays a scattered distribution of residuals, suggesting no discernible pattern or trend. This random sequence sustains the independence assumption between log love response and rating predictor, indicating no violation of this assumption in the regression model.

Residual vs order for rating variable

