

Supplement to Gasoline Prices Effects on Auto Fatalities in New York City, 2001-2008

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In this supplementary materials, we aim to include model checking materials.

1. Figure 1 shows the overall performance of the model fitting. Residuals are approximately centered at zero. Standardized deviance residuals are approximately normally distributed. And low proportion of high influential points.
2. Figure 2 shows no clear correlation between residual and each lagged residuals. In figure 3, plot on the right shows the residual against time, and suggests a good performance of model fitting, although there is still small amount of autocorrelation left (seen in a significant spike in the left figure).

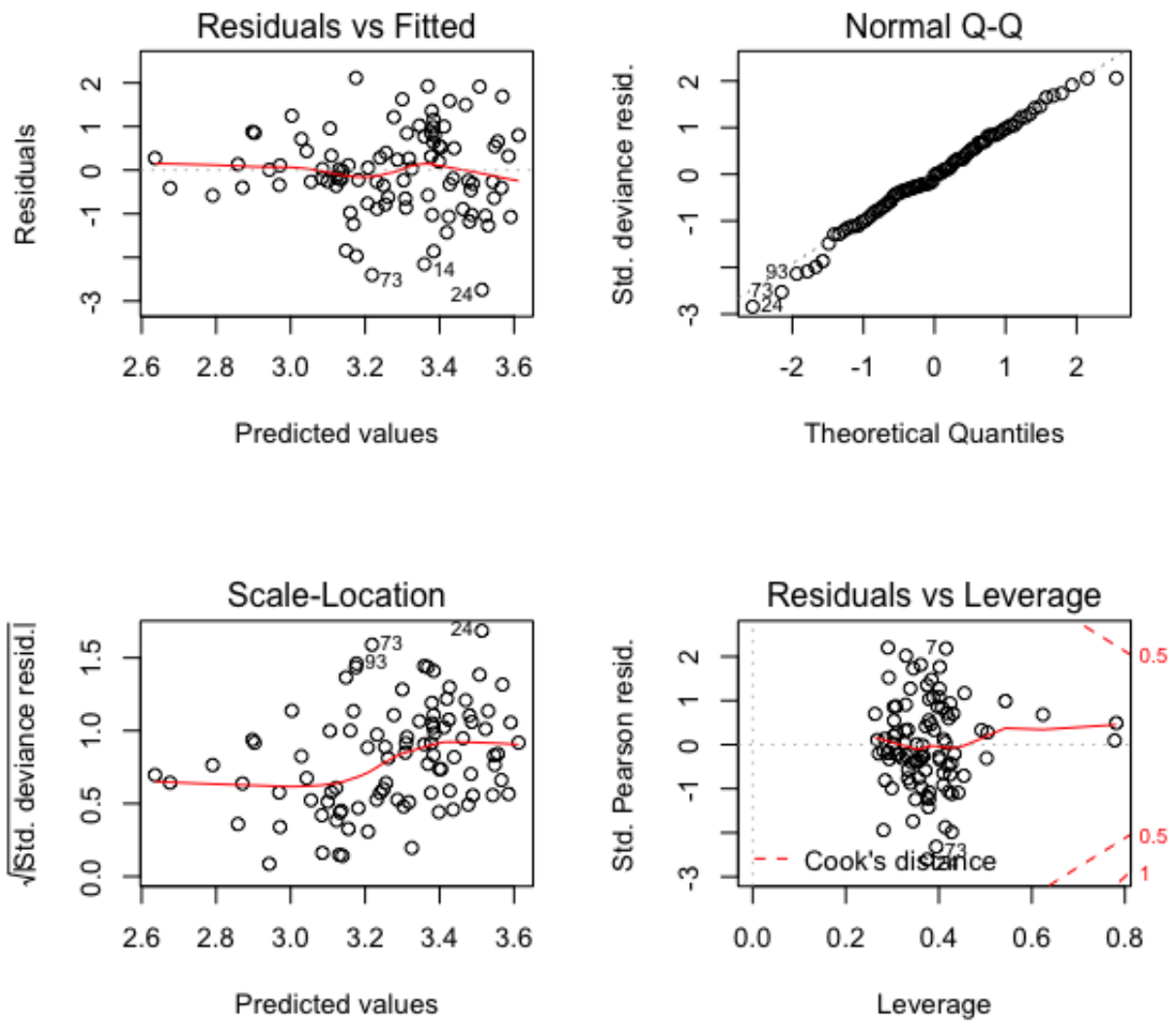


Figure 1: Overall model checking

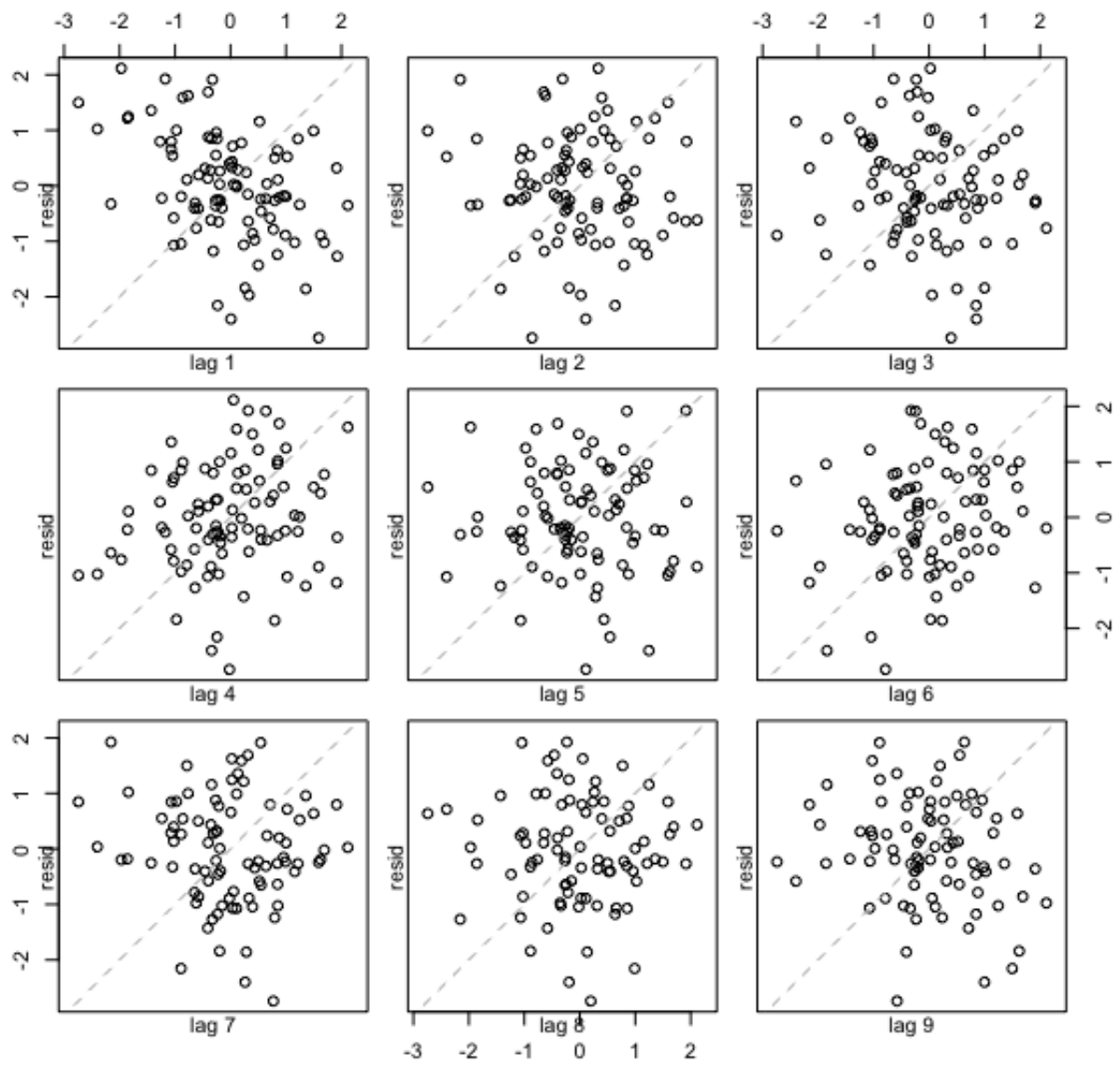


Figure 2: Residual Lag Plots

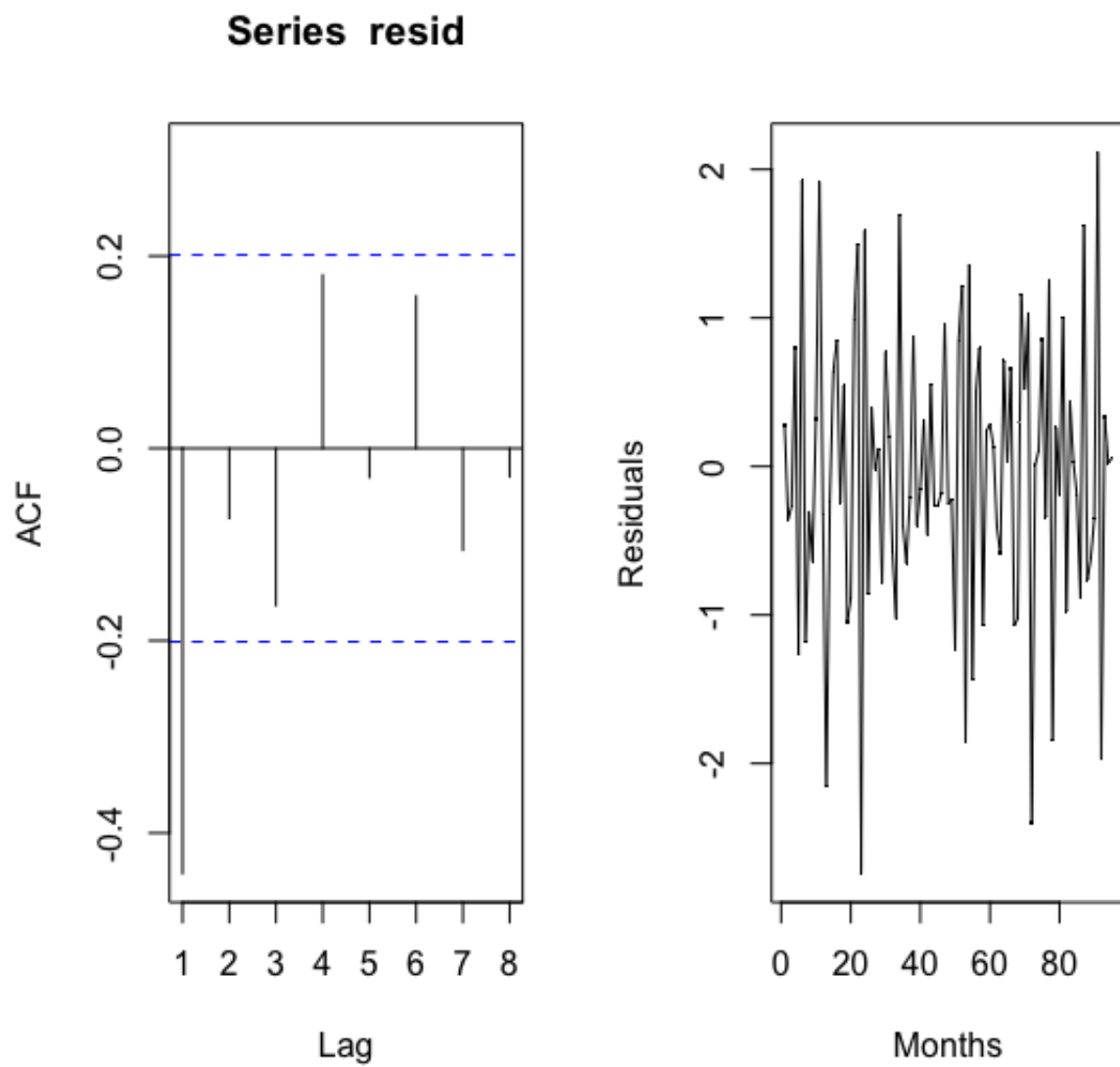


Figure 3: Overall model checking