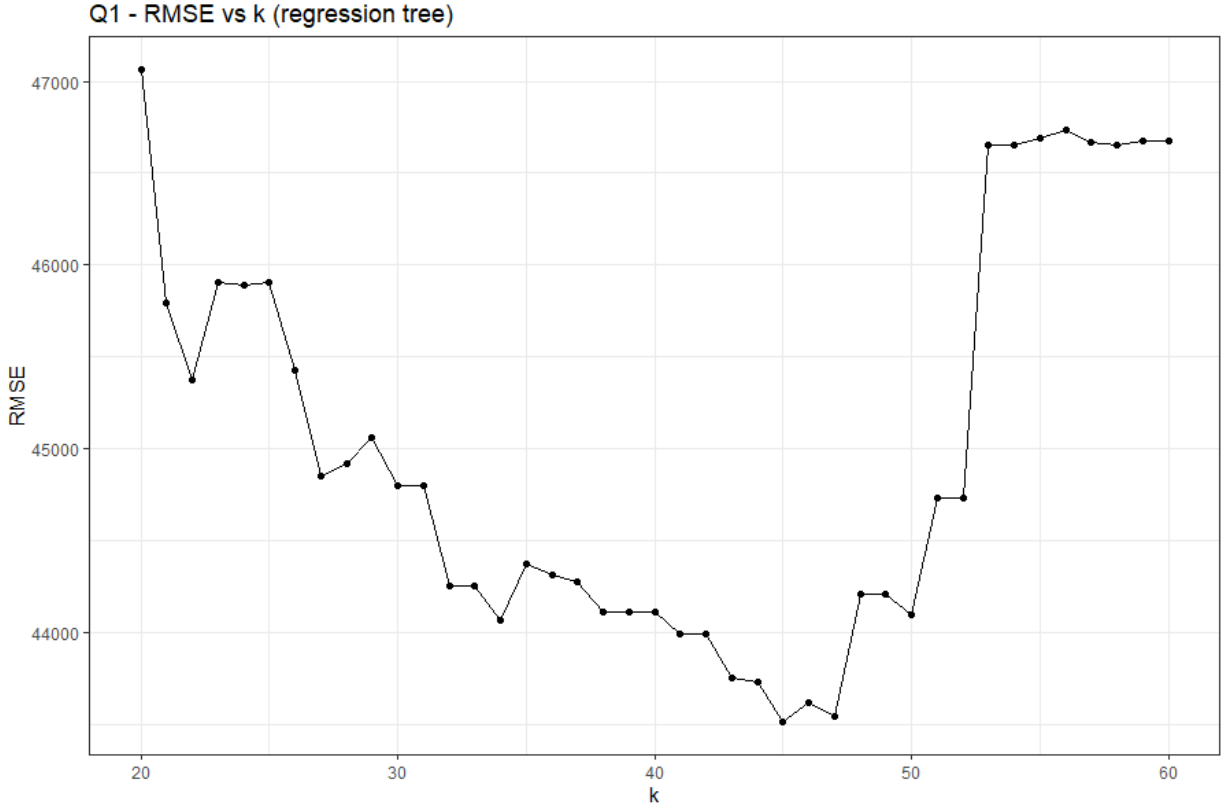
Carl Xi (cxi2)

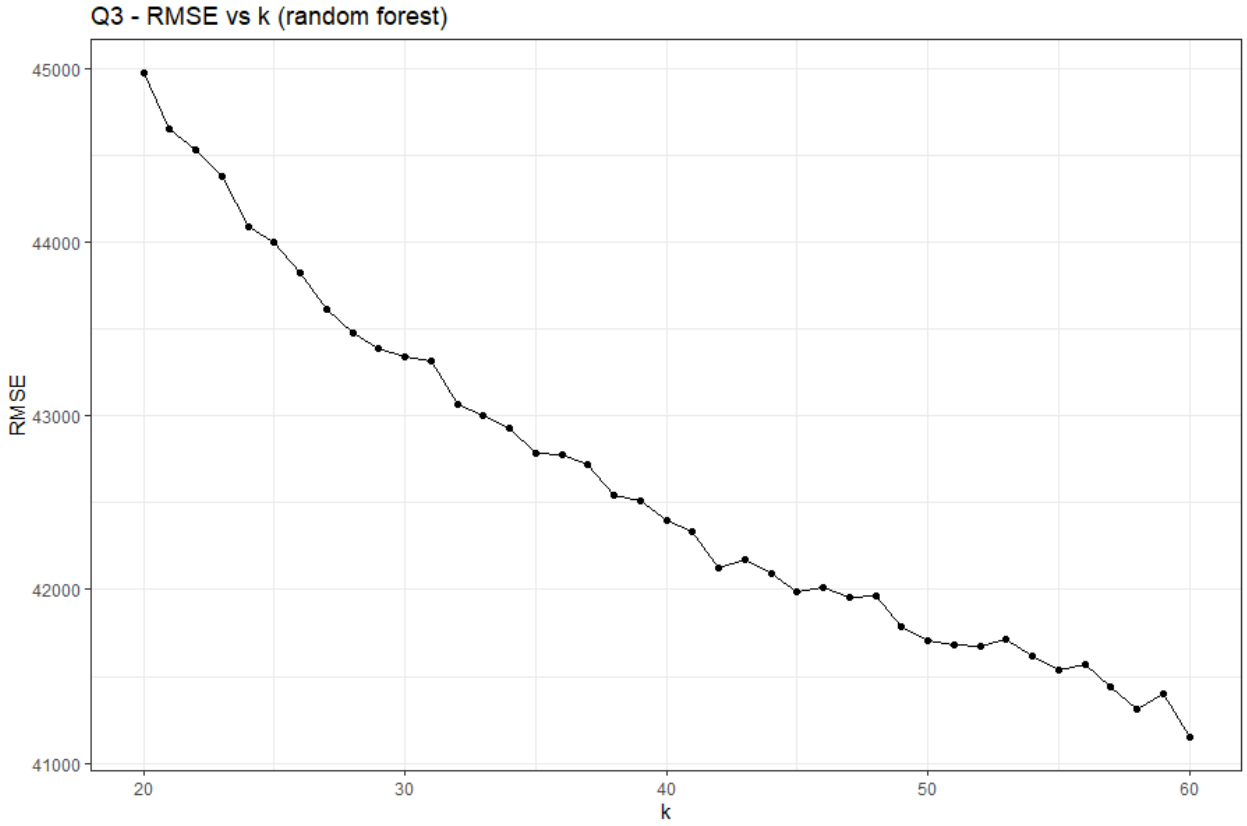
Question 1

*RMSE plotted against k number of end nodes (20 to 60) for Regression Tree



Question3

*RMSE plotted against k number of end nodes (20 to 60) for Random Forest



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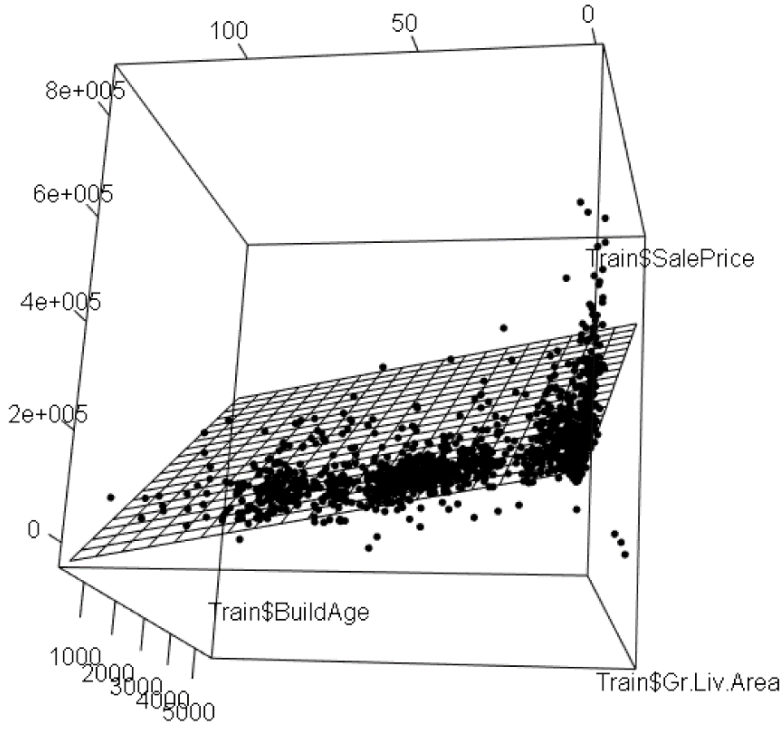
Question 4 (3 Graphs):

*Keras Least Squares Linear Regression (Simple)

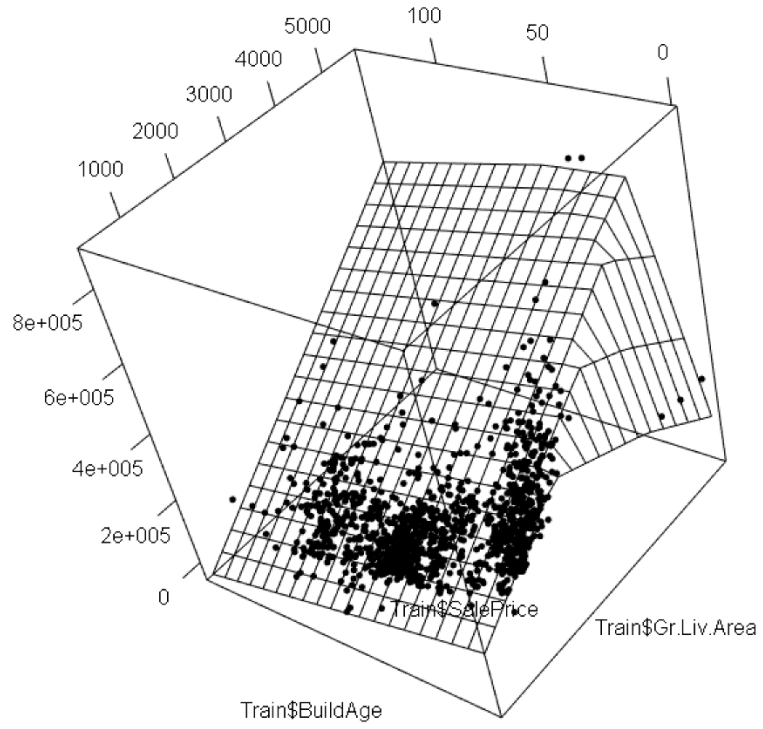
*The view of the graph aims to provide a balance between showing the regression plane from a bird's eye view, showing the regression plane's sense of depth, and the distribution of individual data points



Question 5 (3 Graphs):

*Neural Net Model with a layer of 4 ReLU nodes (units).

*The view of the graph aims to provide a balance between showing the regression plane from a bird's eye view, showing the regression plane's sense of depth, and the distribution of individual data points



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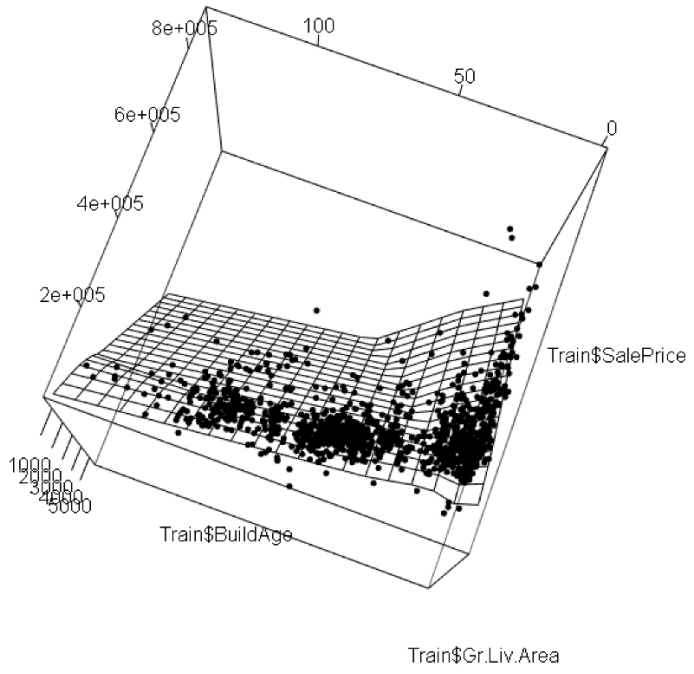
Question 6 (3 Graphs):

*Neural Net Model with a layer of 10 ReLU nodes (units). (The model is made 'wider')

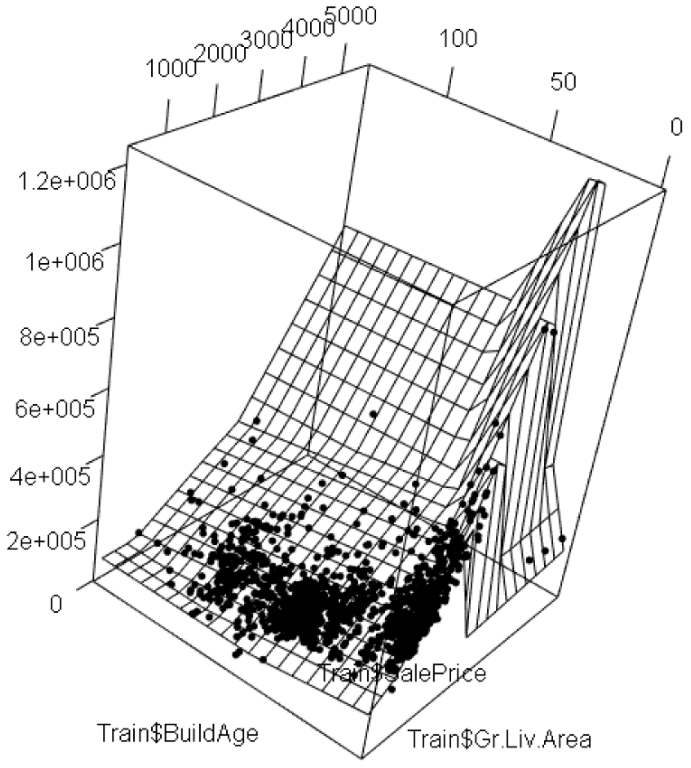
*The view of the graph aims to provide a balance between showing the regression plane from a bird's eye view, showing the regression plane's sense of depth, and the distribution of individual data points



Question 7 (3 Graphs):

*Neural Net Model with 3 layers of 4 ReLU nodes (units). (The model is made 'deeper')

*The view of the graph aims to provide a balance between showing the regression plane from a bird's eye view, showing the regression plane's sense of depth, and the distribution of individual data points



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Question 8 (3 Graphs):

*Neural Net Model with 4 layers of 10 ReLU nodes (units). (The model is made ‘deeper’ AND ‘wider’)

*The view of the graph aims to provide a balance between showing the regression plane from a bird’s eye view, showing the regression plane’s sense of depth, and the distribution of individual data points