Topic 3.1: Introduction to the Lesson

The regression model is based on a number of assumptions. Those assumptions are made so that we can apply commonly used probability distributions as we quantify the variability associated with our estimated regression model. This means that if the assumptions are not met for our regression model, then how we quantify the variability associated with our model is no longer reliable. All our analysis with statistical inference becomes questionable.

In this lesson, you will learn how to use graphical methods to assess whether the regression assumptions are met. You will also learn some inferential methods to assess the assumptions. Finally, we will explore ways in which we can transform our variables after diagnosing which assumptions are not met so that we can still proceed to build our regression model.

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