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Week 8 Reading Questions

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1. Nonparametric models do not make any direct inferences on the population from which the sample was taken, rather they base everything off of purely the sample. Because of this you aren’t able to relate anything that you get from the sample to the greater population. Nonparametric models do not specify the error only the deterministic variable. Parametric models allow you to make direct inferences about the population from your sample. They are able to do this because they require that you specify both the error and the deterministic variable. For these reasons parametric models are considered the stronger method for statistical inference.
2. Interpolation restricts you to make predictions only within the range of data that you have measured. Extrapolation allows you to expand your predictions beyond what you have measured.
3. Extrapolation has more pitfalls because you are making predictions outside of your measured data and assuming that the data ranges outside of the measured bounds are impacted in the same way.