Hazel Ortiz

October 24, 2021

Week 8 reading questions

Q1: Describe the key difference between the non-parametric model (Ch. 7.1) and the parametric model (Ch. 8.1)

The main difference between the non-parametric model and the parametric model is that the parametric model relies on statistical distributions and the non-parametric model does not.

Q2: Interpolation and extrapolation may both be used to make predictions. What is the difference between interpolation and extrapolation?

Interpolation is a prediction that is done within the measured range of the data and extrapolation is done beyond the measured range of data.

Q3: Explain why extrapolation has more pitfalls than interpolation.

Model choice is very important in extrapolation, so extrapolation requires caution. Choosing the wrong model can lead to different predictions beyond the measured data range of data, including predictions that are similar and within the range among different models.