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Week 8 Reading Questions

Q1

The nonparametric model does not make inferences about the population parameters because it assumes we do not know the distribution of probabilities. All inferences are based on the sample. The parametric model allows us to calculate confidence bounds to approximate the population parameters

Q2

Interpolation is prediction within the measured range of data. Extrapolation is prediction beyond the measured range of data.

Q3

The pitfall of extrapolation is that if the wrong type of model is used to make a prediction about the data, extrapolation can make unrealistic predictions of the data beyond the measured range, even if the “bad model” yield reasonable results within the measured range.