

Week 12 Individual Assignment 1

In this exercise you will replicate an earlier group assignment that performed a single-factor ANOVA with three levels.

- Your model should have a parameter α for each level of the factor representing the mean at that level
- Use a normal(0,50) prior for all of the α parameters
- Your model should have a parameter σ for each level representing the standard deviation at that level
- Use a half-cauchy (0,20) prior for each σ parameter
- Use a normal likelihood for y , with mean equal to the α parameter for that particular level, and standard deviation equal to the corresponding σ parameter for that level.

Use the generated quantities block to compute every possible pairwise difference among the α parameters.

Use the 95% credible intervals for these differences to decide which pairs of differences are likely to be different from zero.

The individual datasets can be found on github in the file `MTH225_Week12_IA1_data.zip`