Homework 7

STAT 690STA Spring 2023

Due April 5, 2023, 9:40am on Gradescope

1 Reading

- Read the rest of Chapter 3 in HRW.

2 Questions

1. In your own words, according to Krista, what is the first thing you should think about when deciding which model terms to use in your model?

2. HRW 3.2

   hint: I used this function:

```
correct_fxn<-function(fnames){
  correct<-c(
    "x1" %in% fnames,
    "x2" %in% fnames,
    "x3" %in% fnames,
    "s(x4, df = 2)" %in% fnames,
    "s(x5, df = 2)" %in% fnames,
    "s(x6, df = 2)" %in% fnames,
    !("s7" %in% fnames | "s(x7, df = 2)" %in% fnames),
    !("s8" %in% fnames | "s(x8, df = 2)" %in% fnames),
    !("s9" %in% fnames | "s(x9, df = 2)" %in% fnames)
      )
  as.numeric(correct)
}
```

3. HRW 3.4

4. HRW 3.7