

Unit 7: Multiple linear regression

2. Model selection & diagnostics for MLR

Sta 101 - Spring 2015

Duke University, Department of Statistical Science

April 8, 2015

1. Housekeeping

2. Application exercise

- ▶ Pick a main focus and use that to tell a cohesive story throughout the various parts of the assignment.
- ▶ You do not have to have audience score as the response variable for each analysis, only for the MLR part.
- ▶ Do not mix-and-match model selection methods.
- ▶ Your full model does not have to include all potential variables, though you should have (and state) a reason for why you chose to exclude any that you do.
- ▶ You do not need to have a printed poster, and you can come look at examples in my office.
- ▶ Other questions?

- ▶ Watch the following video on prediction and confidence intervals for a new prediction:
<http://youtu.be/qVCQi0KPR0s> (10:17)

1. Housekeeping

2. Application exercise

Application exercise: 7.2 MLR

See the course website for more details