

# Module 10: Model Diagnostics and Remedial Measures in MLR

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# Welcome

- Remind me to record the live session!
- Recommended: put yourself on mute unless you want to speak.
- Reminder: the raise hand button can be found under “Manage Participants”.

# Agenda

- Q&A
- Some comments
- Small group discussion of guided question set
- Large group discussion of guided question set and other questions that popped up
- Some more comments to wrap up linear regression

# Q&A

# Outliers, High Leverage, Influential observations

Differentiate between outliers, high leverage, and influential observations.

- Generally, observations that have high leverage and are outlying are most likely to be influential.

Note this discussion is based on a linear regression setting. In a univariate setting, an outlier is an observation whose value is very different from the rest.

# Influential Observations

Applet

# Breakout Rooms

# Discussion



# Model Building Process

See document on Canvas.

# Where Are We Headed?

- Modules 11 & 12: Logistic Regression. Binary response variable.

# Upcoming

- Project 2
  - Group expectations (Part 1) and Proposal (Part 2) due April 14 (this Sunday). One upload per group.
  - You should be able to work on the linear regression question.
  - Due on May 8.
  - Group evaluation due on May 9.
- Exam, due Apr 28.
  - Will open after our last official live session on Apr 23.
  - Covers modules 3 to 10 (linear regression).
- We are meeting for official live sessions on Apr 16, Apr 23.
- Apr 30 is officially class time, but I will convert that to office hours.