Homework 3-Outputs to Include

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04 Dec 2016

QUESTION-1

Q1a:

- 1. Direct effect regression coefficients
 - (fit1): $YX: \beta = 0.05, p = 0.001$
 - c'(Y|X): $\beta_c = 0.045(SE = 0.015)$, p = 0.002
 - $b(Y M) : \beta_b = 0.071(SE = 0.023), p = 0.002$
 - $a(M X): \beta_a = 0.082(SE = 0.037), p = 0.027$
- 2. Indirect effect coefficient
 - $ab(M*X): \beta_{ab} = 0.006(SE = 0.003), p = 0.072$
 - $Total: \beta_T = 0.051(SE = 0.015), p = 0.001$
- 3. Bootstrap confidence limits

Q1a:

INCLUDE:

- Residual plot with standardized residuals on the y-axis and predicted probabilities on the x-axis
- Residual plot of casewise values for $\Delta \chi^2$
- Residual plot of Casewise values for ΔD
- Residual plot of Casewise values for $\Delta \beta$
- 4-Column table of plotted residual residuals:
 - $-\Delta\chi^2$
 - $\Delta Deviance$
 - $-\Delta\beta$

REPORT:

- 1. What each diagnostic test tells you
- 2. The diagnostic values for any cases that you judge to be possible outliers or influential data points

QUESTION-2

Q2a:

- 1. Regression coefficients
- 2. Odds ratios
- 3. Confidence limits
- 4. Model fit information
- 5. A pseudo-R2 measure.

Q2b:

- 1. Regression coefficients
- 2. Odds ratios
- 3. Confidence limits
- 4. Model fit information
- 5. A pseudo-R2 measure.

Q2c:

- 1. Regression coefficients
- 2. Confidence limits
- 3. Model fit information
- 4. A pseudo-R2 measure.
- 5. One or two sentences about how your and conclusions compare to the logistic model above.

Question-3

*Q*3*a*:

INCLUDE:

- Residual plot with standardized residuals on the y-axis and predicted probabilities on the x-axis
- Residual plot of casewise values for $\Delta \chi^2$
- Residual plot of Casewise values for ΔD
- Residual plot of Casewise values for $\Delta \beta$
- 4-Column table of plotted residual residuals:
 - $-\Delta\chi^2$
 - $\Delta Deviance$
 - $-\Delta\beta$

REPORT:

- 1. What each diagnostic test tells you
- 2. The diagnostic values for any cases that you judge to be possible outliers or influential data points

*Q*₃*b*:

- 1. Regression coefficients
- 2. Confidence limits
- 3. Model fit information
- 4. A pseudo-R2 measure.
- 5. One or two sentences about how your results and conclusions compare to the logistic model above.