



UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2



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Bookmark

Answer the following research question using multiple regression on the Timpskey et al. dataset:

For clinical science students, after controlling for Gender and Age, what predictor has a greater impact on BDI score - State or Trait anxiety?

Use the results to answer the following questions.

(3/3 points)

After running the full model, with all predictors:

1a. What was the overall model fit (R-squared value)? Report as a percentage and round to 2 decimal places.

Testing (One Group Means)

- ▶ Week 3: Hypothesis Testing (Two Group Means)

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Readings

Reading Check due May 03, 2016 at 17:00 UTC



Lecture Videos

Comprehension Check due May 03, 2016 at 17:00 UTC



R Tutorial Videos

Pre-Lab



Answer: 54.04



1b. What was the overall model F-statistic? Round to 1 decimal place.



Answer: 142.8

1c. How many of the variables in the model show a significant effect for the prediction of the BDI score?




Answer: 2




You have used 1 of 1 submissions

(2/2 points)


1d. What was the Standardized Beta score for State Anxiety? Round to 3 decimal places.

Pre-Lab due May 03, 2016 at 17:00 UTC 

Lab

Lab due May 03, 2016 at 17:00 UTC 

Problem Set

Problem Set due May 03, 2016 at 17:00 UTC 



Answer: 0.177

1e. What was the Standardized Beta score for Trait Anxiety? Round to 3 decimal places.



Answer: 0.608

You have used 1 of 1 submissions

(2/2 points)

1f. What was the proportion of variance that State Anxiety could uniquely account for in the prediction of BDI? Report as a percentage and round to 2 decimal places.



Answer: 1.70

1g. What was the proportion of variance that Trait Anxiety could uniquely account for in the prediction of BDI? Report as a percentage and round to 2 decimal places.



Answer: 19.72

You have used 1 of 1 submissions

(1/1 point)

1h. After controlling for Age and Gender, what was the best predictor of BDI?

☐ State Anxiety

☒ Trait Anxiety

☐ Both

☐ Neither

You have used 1 of 1 submissions

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