Class Activity 3

Multiple Regression Analysis

1. Click "**Special Import" →** "**Browse**", click ***ncaafbstotal.omv*** file

   or "**Open**", click ***ncaafbstotal.omv*** file if the file is already in *Jamovi*.

2. Perform a regression analysis with **a dependent variable** and **at least three independent variables**.

3. Find the following information based on the "**model fit measures**" results of the regression analysis above.

- R^2
- Adjusted R^2
- P-value
- F-value

4. Find the following information based on the "**model coefficients**" results of the regression analysis above.

- Coefficient estimate and P-value of "Intercept"
- Coefficient estimates and P-values of the independent variables

5. Find the following information by conducting the assumptions test.

- Homoskedasticity test
- Normality test
- Collinearity statistics

6. Predict the dependent vatable by using the coefficients of intercept and the three independents employed.

$$y=\alpha + \beta_1 x_1 + \beta_2 x_2 + \beta_3 x_3$$

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After completing the analysis:

1. Save the results of the analysis with a **PDF file**

   How to save?

   In *Jamovi*,

   1) In the result pane, right click on the mouse

2) Select "**All**" → "**Export**"
3) Create a file name → Click "**Export**"

2. Submit the PDF file by using the '**Submit Assignment**' button in the module in Canvas.

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