MET MA 603: SAS Project Exam Help SAS Programming and https://powcoder.com Applications Add WeChat powcoder

Proc Reg

The Regression Procedure

The **Regression Procedure** fits linear regression models to a dataset. This course will only cover simple linear regression, which have a single explanatory variable.

The Model Statement specifies the rependent and independent variables. In the example below, Weight is the dependent variable, and Height is the independent variable. In other words, Height is being used to predict Weight.

```
proc reg data = Height_Weight_Age ;
model Weight = Height ;
quit ;
```

Note: Proc Reg is an "interactive procedure".

The Regression Procedure (cont.)

The **Analysis of Variance output** shows information about the fit of the model. Usually, a p value of less than 0.05 is considered to be a good fit. The R-squared value indicates how much of the variance in the compendant principle of the independent variable. It ranges from 0 – 1.

The Parameter Estimates show the coefficients of the fitted regression equation equation would be:

$$Weight = -143.02692 + 3.89903 * Height$$

The Residual Plot shows the distribution of residuals (actual – predicted value). Randomly distributed residuals indicate an unbiased model.

Practice

Use the Regression Procedure to create the simple linear regression models specified below:

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Model	Variable	Variable
1	https://pow	codeAcom
2	Height	Weight
3	AwdigNteCh	at poweoder

Practice

Use the Regression Procedure to create a simple linear regression models using the scores.sas7bdat dataset, such that exam2 is the dependant variable and exam1 is the independent variable and exam1 is the independent variable medel have pood fit? Why or why not?

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Readings

Textbook section 9.10

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