程序代写代做 CS编程辅导

Instruction:

(A) Questions in this **N-Z**.

ered by students whose **surnames** fall within the range

(B) Use the Excel file

o answer the questions asked.

(C) A heavy penalty

answers are not based on dataset assigned to you.

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Assignment Project Exam Help

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Instructions for Dataset3_part3b: Multiple Regression Analysis

A random sample of 1800 women working in manufacturing industries in country S were interviewed and the following information was collected (and saved in **Dataset3_part3b**): hourly wage in do completed by the employee, number of hours worked per week; a large transfer of the completed by the employee.

The variables save

- hw (Y, hourly
- cgc (X1, curi **F1 1.1.**) d by the employee)
- nhw (X2, nul ed per week)
- resi (X3, place or residence, coded 1 if the employee lives in south and 0 otherwise)

The dependent variable envolvantlysis is trutores

Answer the following questions using Dataset3_part3b

- (a) Estimate a regression equation).
- (b) Interpret the Theaning of the slopes are 163.com
- (c) Predict Y when X1 = 14 and X2 = 40.
- (d) Compute a 15 (confidence interpol estimate of the mean Y for all women working in manufacturing industries in country S when X1 = 14 and X2 = 40 and interpret its meaning.
- (e) Compute a strip Scijon trite to be Social and working in a manufacturing industry in country S when X1 = 14 and X2 = 40 and interpret its meaning.
- (f) Plot the residuals to test the assumptions of the regression model. Is there any evidence of violation of the regression assumptions? Explain.
- (g) Determine the variance inflation factor (VIF) for each independent variable (X1 and X2) in the model. Is there reason to suspect the existence of collinearity? Why?
- (h) At the 0.05 level of significance, determine whether each independent variable (X1 and X2) makes a significant contribution to the regression model (use t tests and follow all the necessary steps). On the basis of these results, indicate the independent variables to include in the model.
- (i) Test for the significance of the overall multiple regression model (with two independent variables, X1 and X2) at 5% level of significance.

- (j) Determine whether there is a significant relationship between 3 and each independent relationship between 3 and each portions of the multiple regression model using the partial F test).
- (k) Compute the containing X is a second in the containing in the
- (I) Estimate a residence sing X1, X2 and X3 to predict Y (state the multiple regression et al. Sion equation for women (working in manufacturing industries) I e regression equation for women (working in manufacturing in south) and interpret the coefficient for X3.
- (m) Estimate a regression model using X1, X2, X3, an interaction between X1 and X2, an interaction between X1 and X3, and an interaction between X2 and X3 to predict Y. WeChat: cstutorcs
- (n) Test whether the three interactions significantly improve the regression model. Assume 5% level of significance (hint: test the joint significance of the three interaction terms using the partial F test) he contribution of each interaction separately (using the partial F test) in order to determine which interaction terms to include in the model).

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