Dr. Sravani Vadlamani
Florida Polytechnic University

Assignment 9

Released: 11/18/2020 Due: 11/29/2020

Assignments are due on the due date, unless otherwise specified. Late submission will not be accepted. This is an individual assignment. Please ensure the guidelines for submissions are followed to receive full credit.

Please use the provided data to develop a logistic regression model to determine the factors that impact the low birth weight (variable low) of babies. The data dictionary is as follows:

Variable	Description	Codes/Values	Variable Name
1	Identification Code	ID Number	ID
2	Low Birth Weight	1 if birthweight <2500g 0 if birth weight >2500g	low
3	Age of Mother		age
4	Weight of Mother at last menstrual period	In Pounds	wgt
5	Race	1 = white, 2= Black, 3 = other	race
6	Smoking status during pregnancy	1= yes, 0 = no	smoke
7	History of premature labor	number of occurrences of prior premature labor	PTL
8	History of Hypertension	1= yes, 0 = no	HT
9	Presence of Uterine irritability	1= yes, 0 = no	UT
10	Number of Physician Visits During the First Trimester		FTV
11	birth weight in grams		BWT

Please ensure your submission includes the following:

1. Summary Statistics for continuous and categorical variables
2. Your best logistic regression model output that includes both the coefficient estimates and the odds ratio
3. Interpretation of the coefficients
4. Stata code.
5. You do not have to turn in a formal report but at the minimum include everything in 1-4 above.

NOTE: Your final exam take home portion will include logistic regression estimation and this assignment is a great practice.

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