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Healthcare Data Analytics Final Analysis (HCAD7520NC)

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Healthcare Data Analytics Final Analysis (HCAD7520NC)

Spring 2018

(due on or before 11:59 p.m. on 14 May 2018)

Total Points: 76 points

Instructions:

1. This final analysis requires you to answer all questions INDEPENDENTLY.
2. Please complete this examination using your laptop.
3. The examination must be submitted at the end of the stipulated three (3) hours allocated for completing this examination. Please upload your completed examination on Blackboard. Only if you are unable to upload your examination should you email the completed examination to the instructor Nalin.johri@shu.edu at the end of the three (3) hours.
4. Any examination turned in after the expiry of the stipulated three (3) hours will attract an automatic one letter grade reduction in overall grade for the midterm.
5. All applicable Seton Hall University policies are in force during this examination.
6. Please ensure that the first page of your typed examination has your name and that the filename is <Lastname_HCADCAD7520.doc or .xlsx or .twb>.
7. On the first page of your examination, please type the following statement and sign and date it

–

“On my honor, I hereby agree to abide by all Seton Hall University policies and I solemnly affirm that I have not collaborated with any individual(s) in completing this examination.”

You have been provided the attached data on Affordable Care Act (ACA) coverage and its potential effects on health outcomes as of 2016. From this dataset, please use the following dependent variable –

- a. If your FIRST name starts with A-M, please use 'Percentage Point Decrease in Uninsured Rate 2010-15'
- b. If your FIRST name starts with n-Z, please use 'People Gaining Coverage 2010-15'

For Part I, please use Tableau for all your work and submit your Tableau Worksheet.

For Part II, please use MSEXcel for your work and submit your MSEXcel Worksheet.

PART I

1. Provide summary details on your dependent variable as well as a visualization of its depiction across states. (6 points)
2. Next consider if the state had expanded Medicaid coverage as of Dec. 2016 to depict your dependent variable. (4 points)
3. Now consider the average number of marketplace plans available in 2017 to depict your dependent variable. (4 points)
4. Focus your analysis on the tri-state area of New York, New Jersey and Pennsylvania for your dependent variable.
 - a. Use Individuals with pre-existing conditions to show its effect on your dependent variable (4 points)
 - b. Use individuals selecting a marketplace plan to show its effect on your dependent variable (4 points)
5. You are provided uninsured rates for two time periods – 2010 and 2015. Consider these two time periods to depict the uninsured rates. (6 points)
6. Complete a Dashboard to depict your visualizations. (15 points)
7. Use the storyboard feature to provide a narrative based on your analysis. (15 points)

Part II

1. Using dependent variable (per your FIRST name), undertake multiple regression with at least three relevant independent variables. (10 points)
2. Justify your choice of independent variables. (3 points)
3. Interpret your multiple regression results. (5 points)

Good Luck!