11/18/2019 Midterm project

Midterm project

In contrast to Homework assignments, you must work completely independently on this project – do not discuss your approact your code, or your results with any other students, and do not use the discussion board for questions related to this project. If questions do arise, please email the instructor and leaf TAE.

Current.

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Reproducibility

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Deliverable

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The this project, you should write a report describing your work in a way that targets a reasonably sophisticated collaborator—not an eight data celerate, but an interested observer. Structure your report to include an introduction and four section consequenting to the problem below. With an explorated level you jee, unjoined record with a similar point of consequenting to the processing and includes released code clowlas and their codput. Includes only relevant information, and advers to a strict 500 word limit this exclude figures and tables, code chanks, indeed, only, MAI, and then on set enferment?, You can chook your word count with the code clower consequence of the code of the word-constadding in view. Yes 150 yields then processing collection of the word-constadding purchape which the Principal Word word word word word word-constadding in year, year,

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Problems

Import and clean the data. Format the data to use appropriate variable names; fill in missing values with data where appropriate (as indicated in the header information); create character and ordered factors for categorical variables.

Briefly describe the data cleaning process and the resulting dataset, identifying key variables based on your understanding of the original scientific report. How many participants are included? What is the age and gender distribution (a human-readable table may help here)?

Problem 2 - Visualization.

Although the authors are interested in how FHP size, age, and sex affect EOP size, no figure contains each of these. Create a 2 x 5 collection of panels, which show the association between FHP size and EOP size in each age and sex group.

Comment on your plots with respect to the scientific question of interest.

Problem 3 – Reproducing reported results.

Are the authors' stated sample sizes in each age group consistent with the data you have available?

Are the reported mean and standard deviations for FHP size consistent with the data you have available?

The authors find "the provalence of ECOP to be 13% of the study population." What is the definition of ECOP, and what variables can you use to evaluate this claim? I the finding consistent with the data available to you?

"He's noted to be more common in older subjects, with "FIPP "40 mm observed frequently [34.5%] in the over 6% cases". Are the broad trends and opening whether consistent with your data?

Some past examples

