**Project**

**Proposal - Due March 26, 2019.**

**Complete Project - Due April 26, 2019**

* **You can work with 1 partner if doing #1 below or 2 partners if doing #2 below.**
* **You can use R and/or Python.**
* **You should be as creative as is humanly possible for you.**
* **You can do one of the following.**

1. **You can analyze a large data set (should be 500 or more observations).**
   * + **Give description of data set including where you obtained data set.**
     + **Explain what you propose to show from this data set.**
     + **Do analysis and provide output which should include graphs and hypotheses tests.**
     + **Summarize analysis and state conclusions.**
2. **You can write a program that solves a problem.**

* **Give description of problem, including where/how you got the idea for the problem.**
* **Explain what you propose to do in your program.**
* **Provide your program and how to run it.**
* **Provide output and summarize results of your work.**

**Proposal:**

* **Include names of people working on project.**
* **If doing #1, include link to data set, description of data set, and what you propose to do with data.**
* **If doing #2, include description of problem, where/how you got the idea for the problem, and what you propose to do.**
* **Proposal should only be a few lines in a word document. Only one person in your group needs to submit the proposal.**

**Project:**

* **Include proposal and state if there are any changes.**
* **If doing #1, include output from analysis, summary and how to run your program. Also submit your code as a .R and/or .py files and submit your data set in a .csv, .txt, or .xlsx file.**
* **If doing #2, provide output and summarize results of your work. Also submit your code as a .R and/or .py file.**
* **Summary should be short. The bulk of the work in your project should be in your code. Only one person in your group needs to submit the project.**

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| **Project Rubric for #1**   |  |  | | --- | --- | | **Item** | **Points** | | **Proposal** | **25** | | Data set link | 5 | | Description of data set | 5 | | Explanation of what you propose to do/show | 10 | | On time: March 26, 2019 | 5 | | **Project** | **75** | | Output from analysis | 20 | | Summary of analysis | 10 | | Code |  | | Comments | 5 | | Work put into Code | 20 | | Different from code covered in class | 5 | | It is working correctly | 10 | | On time: April 26, 2019 | 5 | | **Total** | **100** |  |  |  | | --- | --- | | **Item** | **Points** | | **Proposal** | **25** | | Description of problem | 10 | | Explanation of what you propose to do/show | 10 | | On time: March 26, 2019 | 5 | | **Project** | **75** | | Output and Summary of analysis | 30 | | Code |  | | Comments | 5 | | Work put into Code | 20 | | Different from code covered in class | 5 | | It is working correctly | 10 | | On time: April 26, 2019 | 5 | | **Total** | **100** |   **Project Rubric for #2** |