

## Case Study Rubric

**Due: TBD**

**Submission format:** Submit to canvas your report in the form of a PDF and link to repository

### Why am I doing this?:

This study will give you an opportunity to showcase and practice technical and conceptual concepts. The case study will represent a hands-on scenario similar to one you may be presented in your future endeavors as a Data Scientist.

### What am I going to do?

At this point, you have likely accumulated a variety of technical and conceptual skills in data science. You will now have the opportunity to utilize said skills in a case study that will push you to become a stronger Data Scientist. The end goal will be a deliverable that covers all requirements, including significant results and conclusions alongside the references utilized.

### The deliverable will include:

- A detailed report with references in the bottom (in the form of a PDF)
- GitHub repository (containing code and necessary data)

### How will I know I have succeeded?

You will meet expectations on this case study when you follow the criteria in the rubric below.

| Formatting | <ul style="list-style-type: none"><li>• Submit each component listed in the rest of this rubric as advised below.</li><li>• Data &amp; Code<ul style="list-style-type: none"><li>o Submit code created for all portions in a GitHub repository.</li><li>o Include any additional data that was used in GitHub if necessary.</li></ul></li><li>• The GitHub should be titled “CS-[insert first &amp; last name]”</li><li>• References<ul style="list-style-type: none"><li>o References should be included on a separate page at the end of the Written Portion PDF file.</li><li>o IEEE citation style</li></ul></li></ul> |
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| Report     | <ul style="list-style-type: none"><li>• Discuss your interpretation of the study and thought process by answering the questions below:</li></ul>   |

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|            | <ul style="list-style-type: none"> <li>o In a small paragraph, summarize the problem and give a quick rundown of the relevance of the topic. Use short sentences and keep it concise</li> <li>o In a small paragraph, discuss the course of action in order to satisfy the requirements of the case study.</li> <li>o Include a description of your analysis plan that you will follow for this study. A graphic of this plan is optional but will strengthen your report!</li> <li>o Discuss results of your analysis and the significance of these results in the greater context.</li> <li>o In a small paragraph, write a reflection that discusses challenges faced, how it was overcome, and what you would have done differently and any notes on what you would do if you were given another case study in the future</li> </ul> |
| Code       | <p>Your Github Repository should contain the following in some capacity the organization of the repository itself is up to you:</p> <ul style="list-style-type: none"> <li>● An exploratory data analysis with respect to recipe length/duration and user ratings. <ul style="list-style-type: none"> <li>o Factors: recipe length, recipe duration</li> </ul> </li> <li>● Some sort of analysis and model such as linear regression or correlation analysis</li> <li>● Use the dataset provided in the "DATA" folder on GitHub.</li> <li>● Be sure to include comments so a viewer can understand your process.</li> <li>● A master script that will perform all analysis that will allow future data scientist to reproduce your code</li> </ul>   |
| References | <p>As you utilize new references, keep note of them and list them at the end of your written report. Format this list of references in IEEE citation style. Only cite references that were NOT in the already given reference materials.</p>   |