**Checklist / Suggested Outline**

* Abstract (no more than 300 words)
* Overview slide
  + Context on the data collection
  + Description of the dependent variable (what is being measured)
  + Description of the independent variable (what is being measured; include at least 2 variables)
  + Research question
* Summary statistics
* Include appropriate data visualizations.
* Statistical output
  + Include the appropriate statistics for your method used.
  + For null hypothesis tests (e.g. t-test, chi-squared, ANOVA, etc.), state the null and alternative hypotheses along with relevant statistic and p-value (and confidence interval if appropriate).
  + For regression models, include the regression output and interpret the R-squared value.
* Conclusion
  + Why is this analysis important?
  + Limitations of the analysis?

#### Rubric

| **Domain** | **Accomplished** | **Proficient** | **Needs Improvement** |
| --- | --- | --- | --- |
| Abstract | Abstract is less than 300 words, free of grammatical errors, summarizes the analysis conducted, has a conclusion and implicaitons | NA | NA |
| Introduction | The research question is clearly stated, can be answered by the data, and the context of the problem clearly explained. | The research question is unclear and/or not supported by the data. | Research question is ambiguous, unclear, or not stated. |
| Data Display | Includes appropriate, well-labeled, accurate displays (graphs and tables) of the data. | Includes appropriate, accurate displays of the data. | Includes appropriate but no accurate displays of the data. |
| Data Analysis | The appropriate statistical test(s) was used for the data and interpretation was clear. | The appropriate statistical test(s) was used but interpretation was not fully clear or well articulated. | The incorrect statistical test was used an/or not justified for the data as presented. |
| Conclusion | Conclusion includes a clear answer to the statistical question that is consistent with the data analysis and the method of data collection. | Conclusion includes an answer to the statistical question that is consistent with the data but not with the data collection method. | Conclusion does not include an answer to the statistical question that is consistent with the data analysis. |
| Overall Presentation | Attractive, well-organized, well-written presentation | Presentation has two of the three qualities: attractive, well-organized, well-written. | Presentation is not attractive, organized, or written. There are numerous errors throughout. |