**TITLE**

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Capstone...

**Abstract**:

You need to have an abstract for your paper. This should give the readers an  
overview of your project and what you have done. It should have 250 words or fewer.

**Introduction**:

For this project, I wanted to explore the connections between different social issues and their possible connections to each other and/or other factors. I decided to do this because I am very interested to find out what issues cause higher suicide rates. Suicide is a real problem today, and I personally have been affected by it. I want to know if there are certain factors that increase the risk. One thing I am especially interested in is if there is any link towards gun ownership. I am adamantly against the ownership of guns, especially ones that can cause large amounts of damage in a short time. My mother is part of a school district, and discussions about guns and shootings often come up, and I feel that any information of what determines gun ownership could help people identify if they are at a greater risk or not.

The introduction gives the background/motivation of the topic/project.  
There is no limit for this section, but the typical length is about 1 page or shorter.

Exploratory:

To start off, I cleaned up my data and ended up with fourteen different variables with the data from each of the fifty states: % voting republican, % voting democrat, GDP per capita, % total white population, % total black population, % total Indian (Native American) population, % total Asian population, % total Hawaiian population, % total other population, % gun ownership, density, growth rate, % of population below poverty level, and suicide rate. After this I created a correlation graph and found that GDP per capita, % gun ownership, and % below poverty level all had significant correlation with the suicide rate.

My next step was to graph each of the variables against suicide rate to see if I could notice any patterns. I split them into three categories: election results, general stats, and ethnicities. I went over each graph individually, and for each one if I saw a pattern, I drew what I felt would be the best line of fit.

Linear Models:

My next step was to create linear models. I used all the above variables and ran step forward, back, and both direction models. To create a final model for this section, I combined all the final variables in the model. Upon looking at the formula, I noticed that the % republican and % democrat appeared to be exact opposites of each other. This led me to redo what I had previously done, but instead of using the % republican and % democrat variables I combined their values into a single factor variable that indicated the overall winner. Next, I created a side-by-side box plot of the factor, but, visually, nothing seemed to drastically change between the two. I then reran the creation of the linear models, and was only able to create a step forward and both model. Interestingly, the newly created factor variable was dropped completely in favor of Other and Native American %.

Write down models, compare r between the two “round”

Bayes Models:

Results:

In this section, you will explain what you have done in detail and the results of  
your computations/analysis. There is no limit for this section; you need to give as much  
details/explanation as possible.  
Please DO NOT include your code here. Instead, you should refer to the attached code in  
the appendix. For example, if you perform a regression study, you need to explain why  
you plan to do a regression, write down the regression formula (like y=mx+b), and  
explain the variables you use in the regression. But you do not need to show the code of  
the regression. Instead, you can say something like “The code for this regression (name  
of the file) can be found in the Appendix.”

**Conclusion**:

In this section, you will summarize your findings and what you have learned  
from your computation. Is there any prediction you can make? Is there any suggestion  
you can give There is no limit for this section, but the typical length is about 1 page or  
shorter.

**References**:

You need to include all the sources you use. You also need to include an in-  
text citation. You can choose either APA or MLA citation style for your paper. Whatever  
style you choose, be consistent.

<https://worldpopulationreview.com/state-rankings/gun-ownership-by-state>

<https://worldpopulationreview.com/state-rankings/2020-election-results>

<https://worldpopulationreview.com/state-rankings/gdp-growth-by-state>

<https://worldpopulationreview.com/state-rankings/poverty-rate-by-state>

**Appendix**:

Upload your code and provide a link here. Make sure you name your files so  
that you can refer to them with a name. One of the common places to upload your code is  
Github (https://github.com/), and this is free for basic pack