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DSC 680

Professor Williams

<p align="center">Project Two Presentation Q&A</p>

1. How did you settle on your methodology?
   a. The goal of the analysis was determining the factors that best predict increased suicide rates. The dataset was entirely numeric, so there were not restrictions on the type of regression model available. I chose to implement a variety of models to determine which provided the best performance and prediction power.

2. If you had to do the project again, what would you do differently?
   a. If I were to approach with project with the information I have learned, I would have examined factors such as World Happiness and GDP in the countries within the dataset. This would have provided a more complete picture of the state of each country and possible influences.

3. How can the insight from this project be applied?
   a. The insight gained from this project can aid in the understanding that accessibility to mental health treatment and proper staffing is vital to decreasing rates of suicide. It is also valuable in understanding factors that carry the heaviest weight.

4. Who was your target audience?
   a. The target audience for this project are mental health professionals, researchers, and members of government.

5. What was your methodology for visualization?
   a. My approach to visualization was to use it as a tool to aid in understanding the story within the data. For this project, I chose to exclusively use Python for creating visualizations. I employed a variety of libraries and techniques to provide insight and value to the project.

6. What is one area of weakness in your analysis?
   a. The biggest weakness in the analysis is model fit for regression. After testing several models on the data, none provided acceptable performance. Changing the features had limited impact on model performance.

7. What are some alternate methods to approach is problem?
   a. This problem could have been approached as a classification problem that may have yielded better prediction.

8. What have you learned from this process?

a. This project strengthened my understanding and comfort levels with regression models. It has allowed me to research and develop skills in interpreting models and problem-solving for low model performance.

9. What are some areas for follow up analysis?
    a. Follow up analysis should be conducted as an ensemble with external factors such as political unrest, GDP, mortality, and disease rates examined.

10. What other data sources could be added to strengthen future analyses?
    a. Future analysis should focus on factors such as age, socio-economic status, and overall Happiness within the country.