

Introduction

Tobacco Smokers in Young People is a major problem in the US. This data looks at different variables among tobacco users. Our project, we aim to make significant strides towards mitigating the adverse effects of tobacco use on the health and well-being of the younger generation, ultimately contributing to a healthier and tobacco-free society.



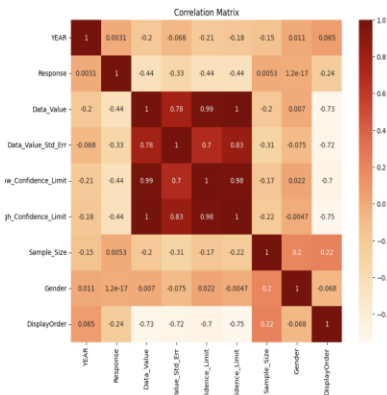
Questions

1. Do the responses to the surveys line up with the amount of smokers?
2. What stage are people in with smoking?
3. Are there fewer smokers over the years?
4. Do the confidence levels have an effect on the main data value?
5. What are the top locations of smokers?

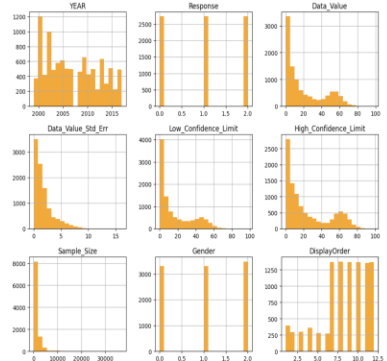
Exploratory Analysis

Some of our exploratory analysis.

This is a correlation matrix of all the variables to see what is related or correlated.

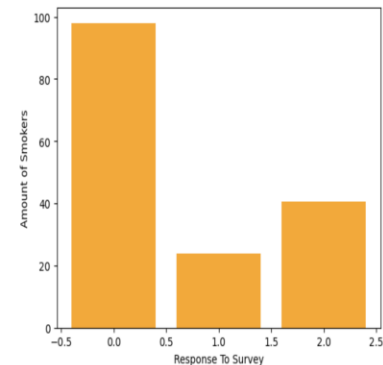


This is showing the values of all the variables in the dataset.

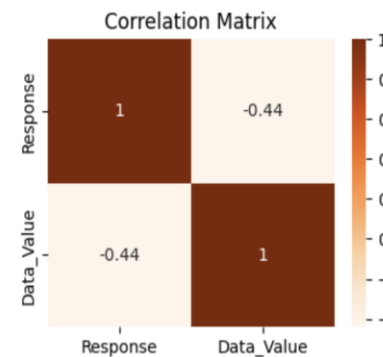


Do the responses to the surveys line up with the amount of smokers?

This is looking at the survey and their response to how much they smoke. 0 is "Ever", 1 is "Frequent", and 2 is "Current."

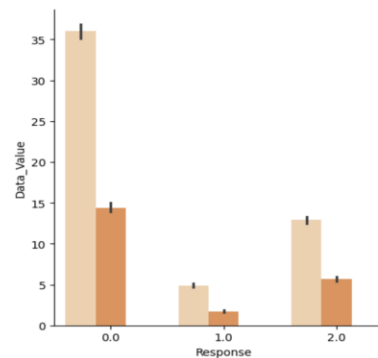


This shows the correlation matrix between the Response and Data_Value. This correlation is a negative weak correlation.

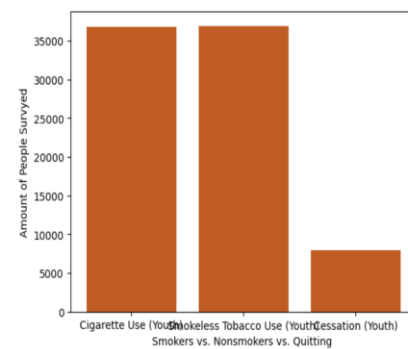


What stage are people in with smoking?

This is looking at the relationship between the Response, Data_Value, and TopicDesc(Stage of Smoking the Youth is in). Cigarette Use is the light orange, Smokeless Tobacco is the darker orange, and Cessation (quitting) is the darkest orange. No one is in Cessation.



This is comparing Smokers/NonSmokers/Quitting to the Number of People Surveyed.

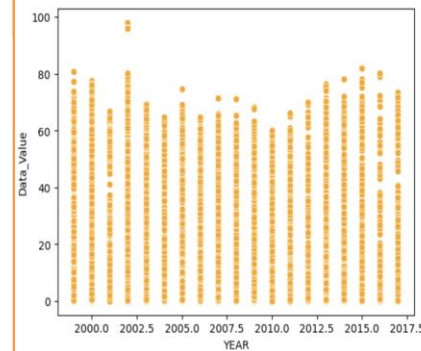


Tobacco Usage Among Young People

Mary Oelkers, Collin Kneiss, Hitesh Patil
IST 652: Final Project

Are there fewer smokers over the years?

The scatterplot below is looking at the number of smokers over the years.



Do the confidence levels have an effect on the main data value?

This is looking at the confidence interval and whether it fits the Data_Value.



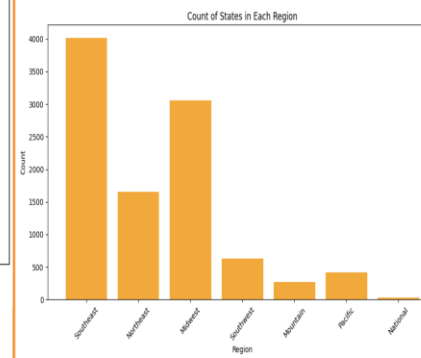
This is showing the High CL ^



THIS IS SHOWING THE LOW CL

What are the top locations of smokers?

These are the areas based on region of the number of Smokers.



"Youth Tobacco Survey (YTS) Data | Data | Centers for Disease Control and Prevention." *Chronicdata.cdc.gov*, 23 Apr. 2023, chronicdata.cdc.gov/Survey-Data/Youth-Tobacco-Survey-YTS-Data/4juz-x2tp/about_data. Accessed 23 Apr. 2024.