

Where To Buy A Liquor Store In Iowa?

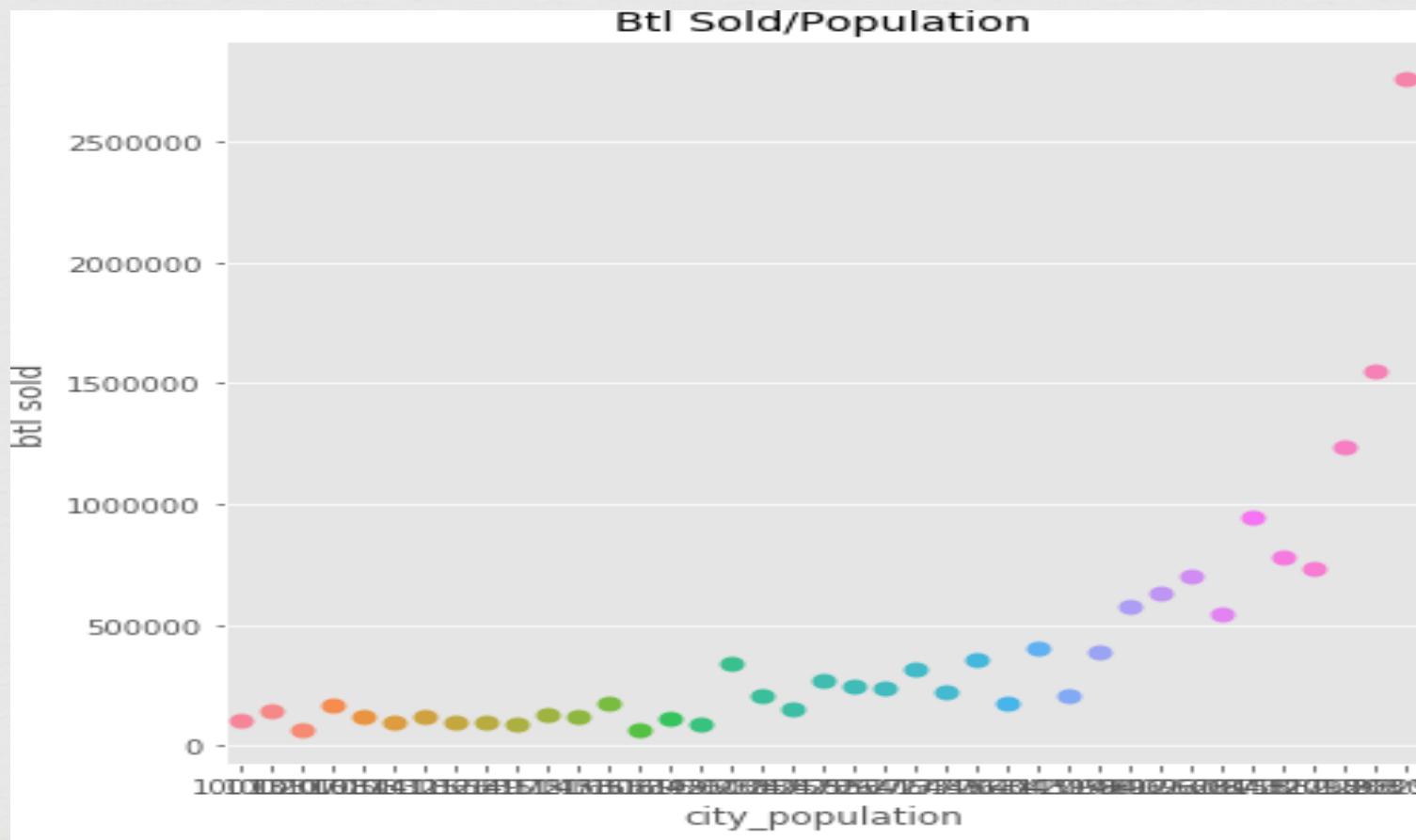


We are going to examine:

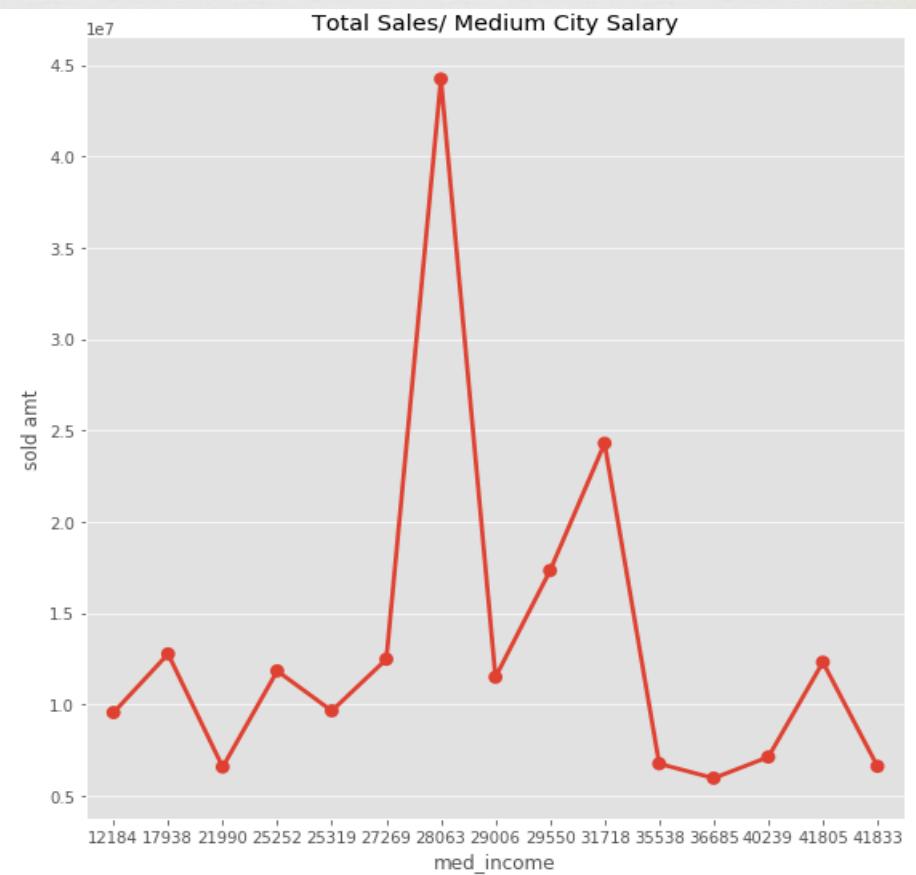
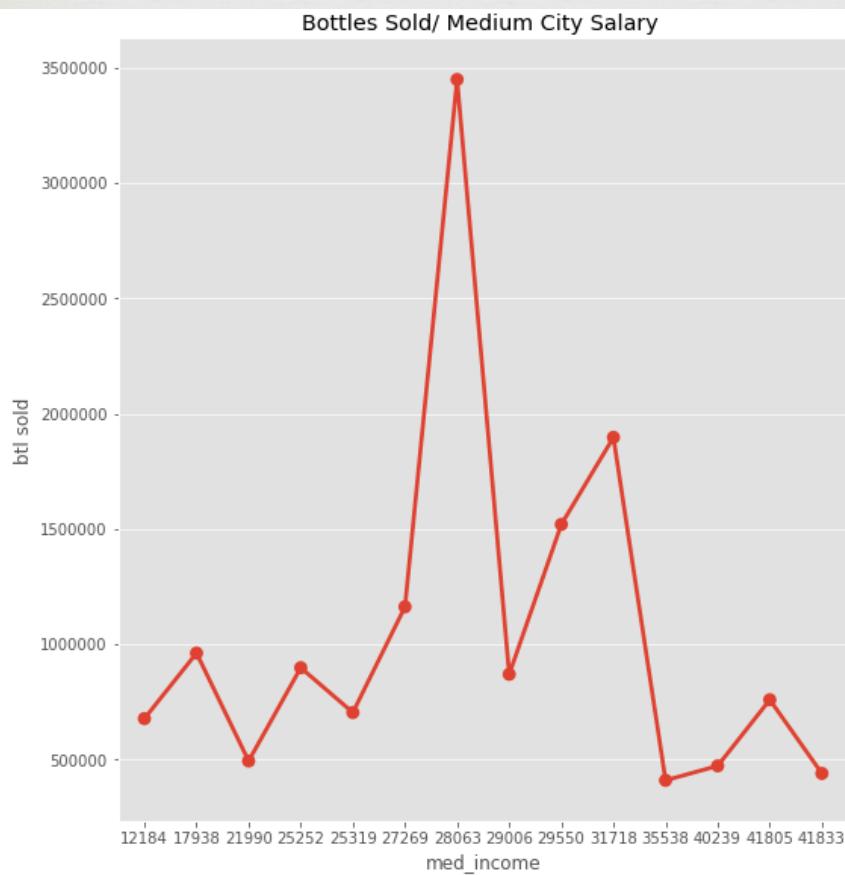


- ❖ City Population
- ❖ City's Medium Income
- ❖ Bottles sold
- ❖ Seasonality

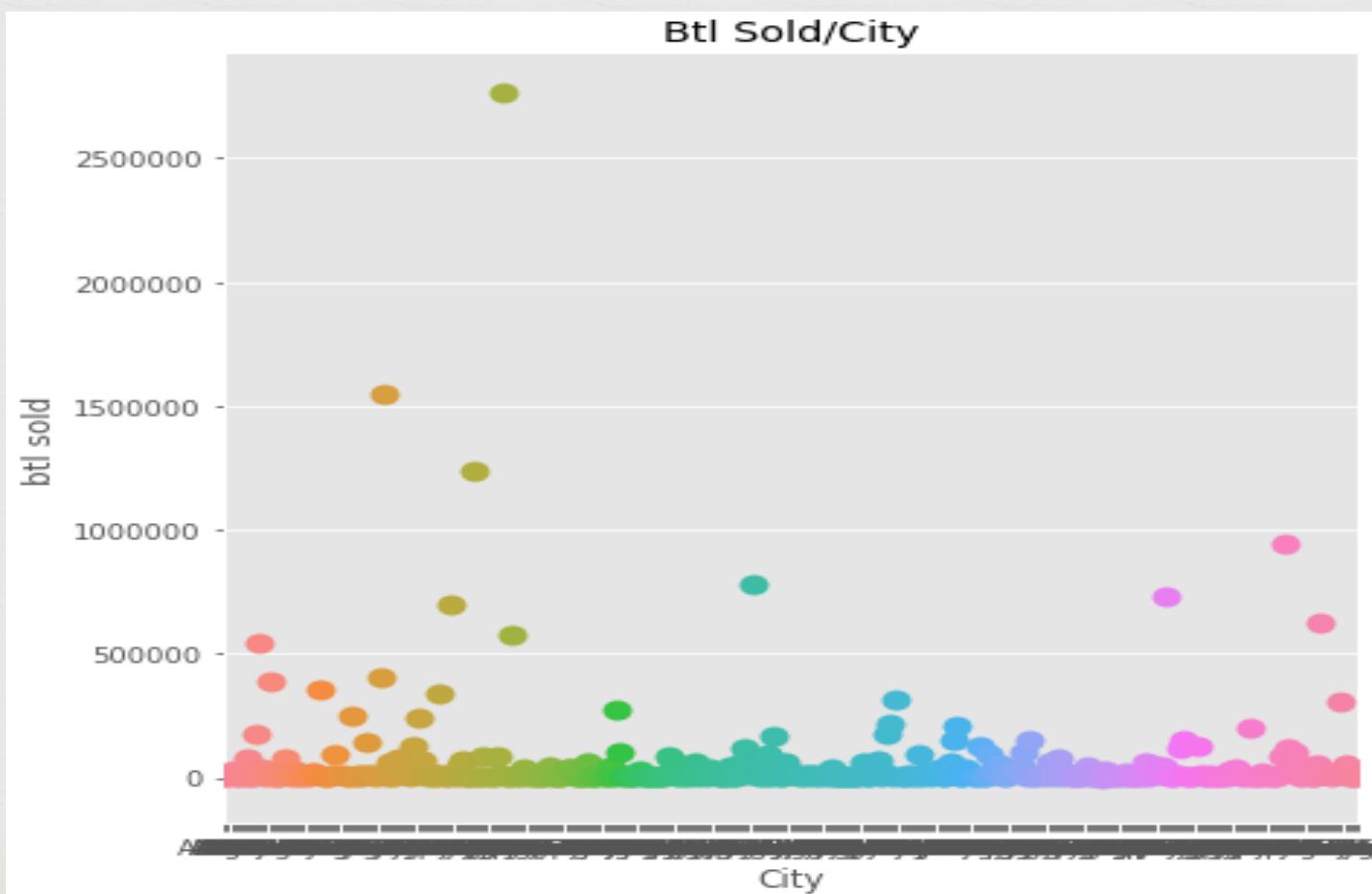
The Increase in Bottle Sells with Higher Populations



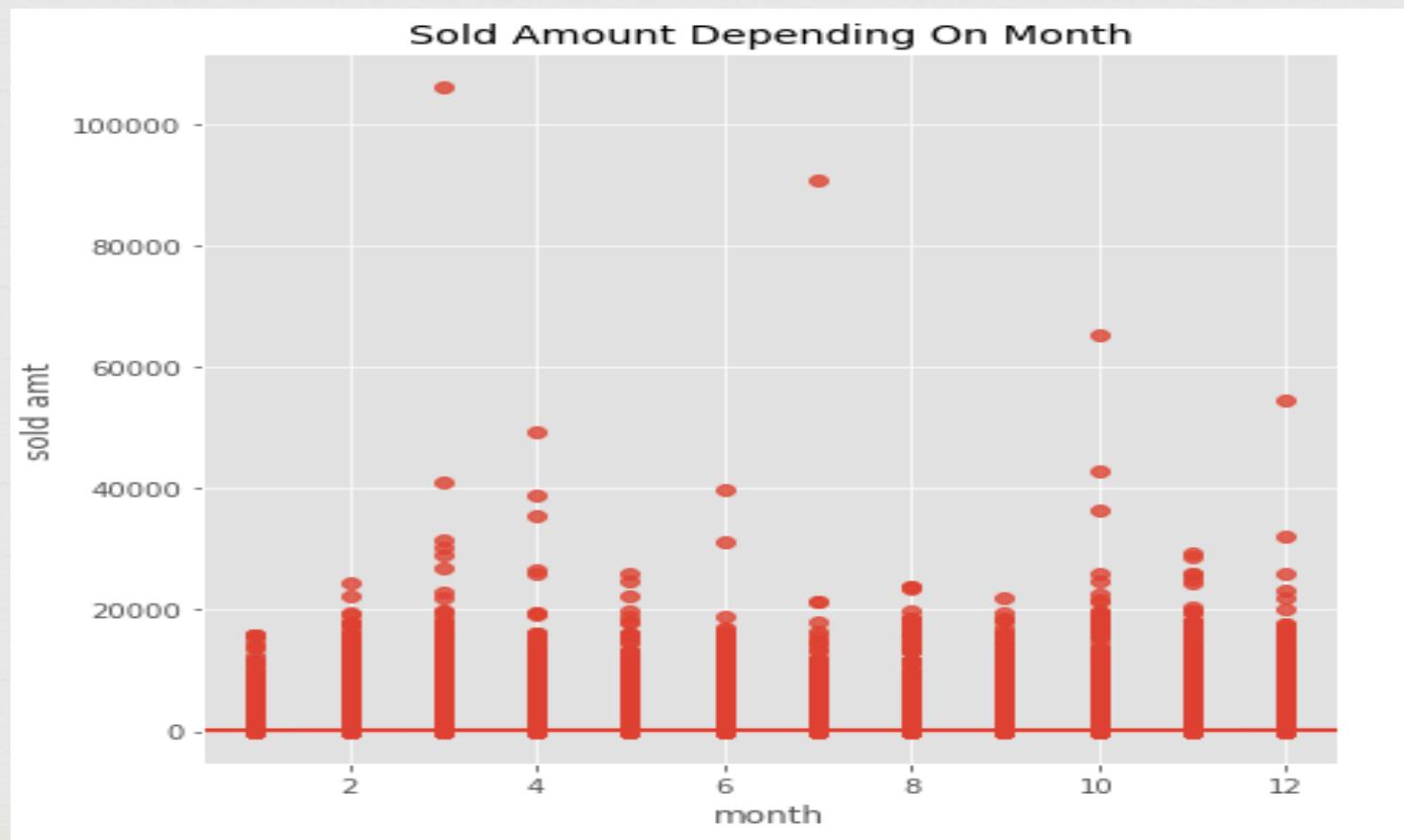
City's Income on Liquor Sales



Bottle's Sold per City



Month's Effect on Liquor Sales

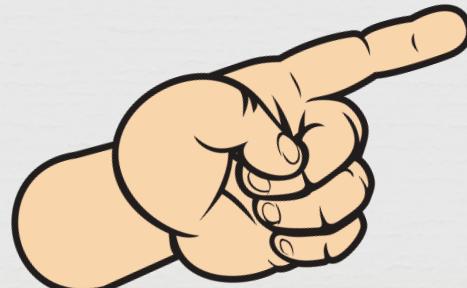


Predictive Model To Predict Liquor Sales

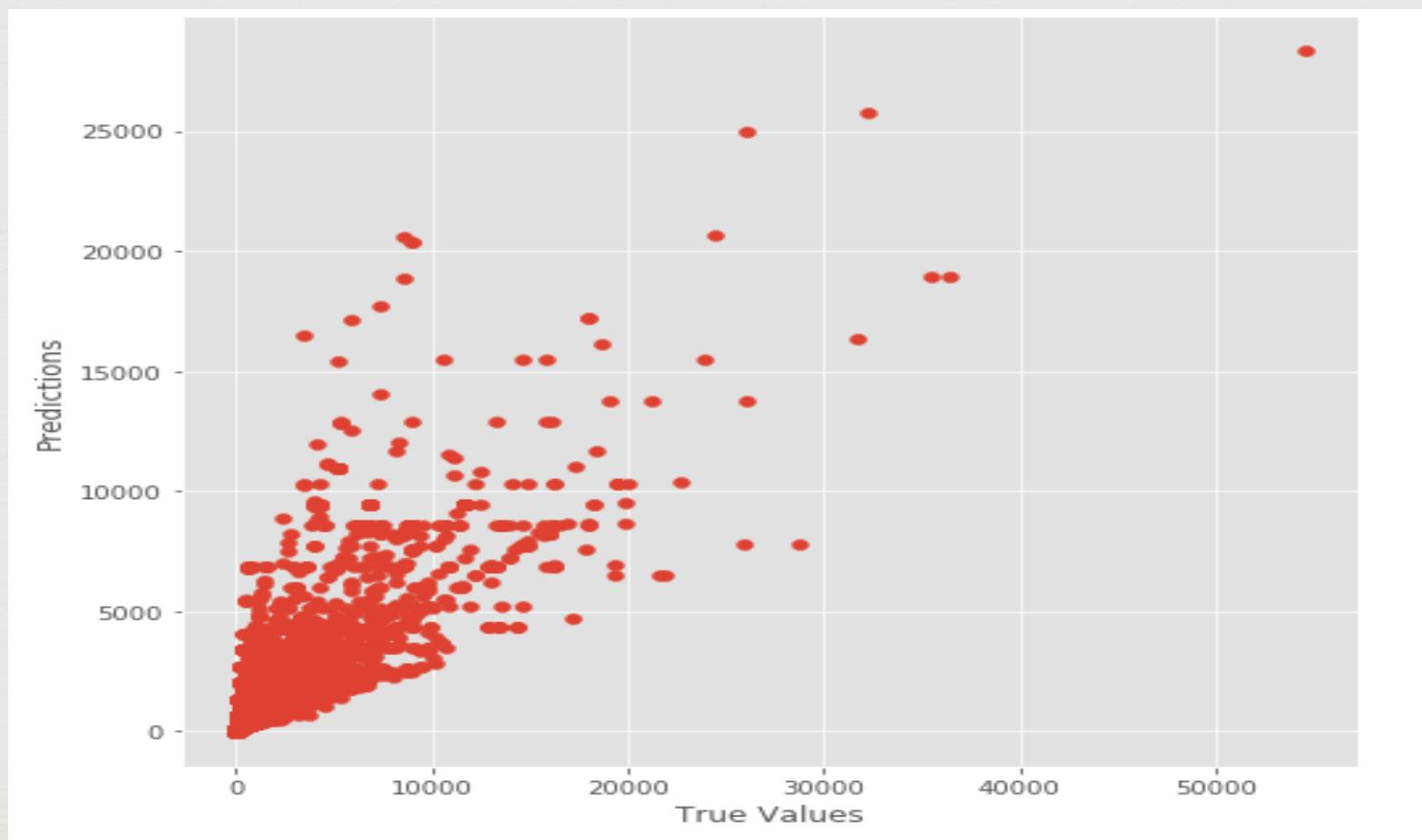


- ❖ Retail Cost for a Bottle
- ❖ Amount of Bottle's Sold
- ❖ City's Population
- ❖ City's Medium Income
- ❖ Months of the Year

$$\begin{aligned} 2 &> -3 \\ 0.999\dots &= 1 \\ \pi &\approx 3.14 \\ \sqrt{2} &\approx 1.414 \\ 5^{(2+2)} &= 101_2 = 5_{10} \end{aligned}$$



Prediction Outcome



In Conclusion



- ❖ The numbers have suggested that the following inputs do have a statistical significance, meaning: these variables help the model predict total sales.

- ❖ However, there is likely other factors involved that will further help predict total liquor sales for businesses in Iowa, that we have not accounted for.

Recommendations



1. Buy a liquor shop in Des Moines and deploy a tactic known as Central Place Theory
2. Buy a liquor shop in Robins, the highest ratio of people to one shop!
3. Buy a liquor shop in Griswold, the second highest ratio of people to one liquor shop!