* *Data Analysis and Modeling:* What visualizations methods used to analyze your data from different point of views? What are the machine learning techniques you used and why (justify your decisions)? How did you reach these conclusions?

We used multiple different types of visualization methods to analyze our data from different points of views. We used a spline chart and multiple bar graphs to represent our data. For one of our questions we decided to go deeper and add a bar graph with a confusion matrix that also included generalized linear model. This aided us in further interpreting our data and drawing our conclusions. For the machine learning techniques, we used a linear regression model, a multiple regression model and a generalized linear model. Our linear regression model was chosen so that we could display a link between the year and the number of breaches. This model shows us that as the years progress and so does technology the number of breaches will go up. Our multiple regression model shows us the types of breaches in relation to the total number of breaches. This aids us with understanding which breaches out of all of them will go up as the years progress. We reached our conclusions using these models. That showed us that the number of breaches will go up as time progresses.

* *Final outcomes and Analysis:* What are the result you obtained about the data? Make a comparison between results obtained using different ML methods. What are the answers for you proposed questions about the data? What are your justifications for your answers?

The main result that we obtained about the data is that the amount of breaches has gone up as the years progressed. The results that we obtained from the ML methods show that the number of breaches has increased with time and that the number of each type of breach has also increased. We answered all the questions that we initially had about this data set. Our findings were that there was a correlation between the number of breaches and the year. We determined that out of the known types of breaches thefts and losses had a larger impact on individuals than all the other types of breaches that we compared. We figured out that Paper was the most susceptible to a data breach, but Laptops were a close second. We found out that Virginia had the most people that were affected by data breaches. And, our predictive models helped us determine that the number of breaches will continue to rise as the years and technology progresses. We justify all of our answers using predictive models and other various visualization methods.