

Steps for using the product developed

- 1) We have chosen to analysis the Crime reports in the City of Philadelphia. The data set is obtained from Kaggle. As a result we have come up with two result – one is the analysis and the other is a prediction model. The data is loaded which is downloaded from Kaggle. The data that is cleaned of 2017 criminal reports is to be loaded into Tableau.
- 2) The first dashboard in our data product is the clustering. User can input the type of crime, the year. And based on these input the data is clustered into groups which has a similar rate of crimes that are reported.
- 3) The next is the major crime prediction. We have forecasted the rate of crimes for the coming year. User can input the year and the crimes reports for that year is analyzed.
- 4) The analysis of the minor crimes is similar to step 3
- 5) The next dashboard provides an overall prediction on the crimes for the present to 2017. We have made use of forecast and linear regression (using the trend lines). The user can select the type of crimes to be included in the analysis.
- 6) The last dashboard does a prediction monthly. User needs to select the crimes, year and month of that selected year and the model helps to predict the crime for that particular time.
- 7) The final dashboard is the conclusion we have derived from these analyses.