# Predicting the traffic/frequency of calls and analyzing emergency 911 calls made in United States

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## INTRODUCTION

United States is the world's largest superpower not only in the business but also in the crimes that occur every day, every hour, and every minute in some or the part of the country. To tackle all these crimem they have police helpline number /emergency number 911. Our objective is to predict and conduct an analysis basis on the 911 calls made from any particular region, So that most targeted region by the criminals should be in the crosshairs of cops.

## OBJECTIVE

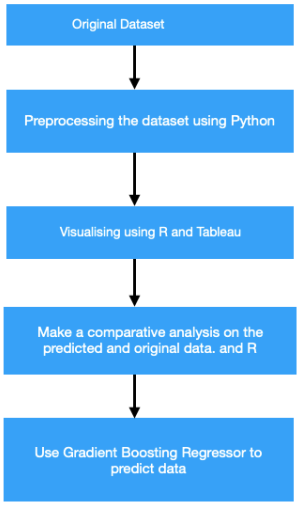
- To visualize the region from where most calls are made to cops and target the time of happening.
- To predict the region were patrolling should be done more and at what time it should be done.
- To compare the actual Data with the Predicted Data using appropriate charts and algorithms such as Gradient Boosting Regression and Naive Bayes

## DESCRIPTION

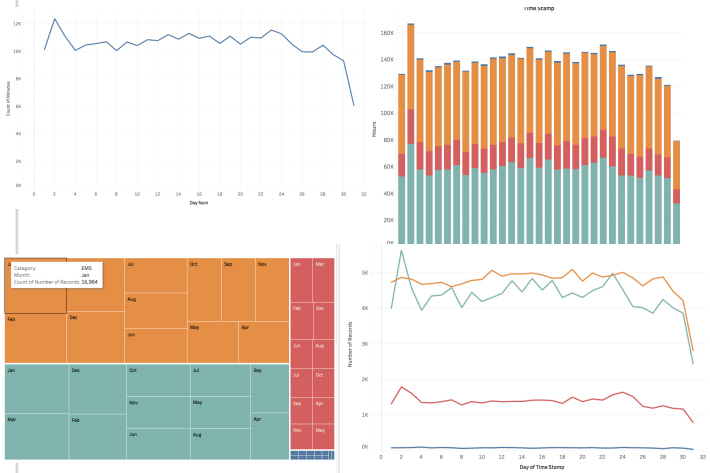
- The data for the analysis was influenced by Kaggle which contained various attributes like category, time taken, time stamp etc.

- Data is taken and pre-processed using appropriate python libraries and code and was visualized using tableau for finding out the areas that had higher crime rates with respect to other counties.

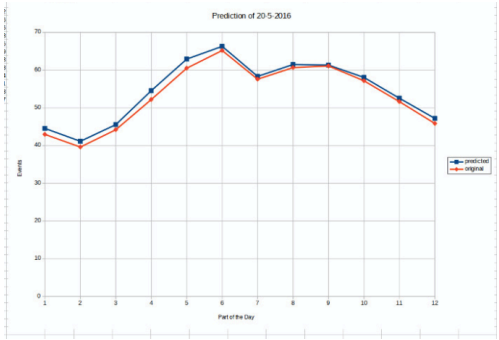
## WORKFLOW




## DATA VISUALISATION



## PREDICTION & ANALYSIS




- The regression model used on the given dataset trains the dataset and gives it an accuracy of ~80%.
- The trained/predicted dataset and the original dataset were compared and it showed similar levels of prediction as present.

## CONCLUSION

- Such implementation could enable help & rescue teams, emergency services to prepare for upcoming events and better plan their work.
- Also using the predictive data, we can allot more number of emergency vehicles during a particular 2-hr section of the day.