Project Proposal

Team member

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Project title

Boston Crime Category Prediction

Data Comes From

https://data.cityofboston.gov/Public-Safety/Crime-Incident-Reports-July-2012-August-2015-Sourc/7cdf-6fgx

Project description

As well known, on Nov 5, 2017, at least 26 people were killed in a church shooting in Sutherland Springs, Texas[1]. The safety issues have become the most concerned topic recently.

Although Boston is a relatively safe city, and we haven't experienced this kind of terrible events in these years, we still need to be aware of what's happening around us.

In this project, we will use the crime data recorded by Boston city [2] such as crime category and position, etc. to predict the categories of crime that may occur in the near future.

Project implementation

In this project, we chose multinomial logistic regression[3] as the method for solving this problem,　it is a model that is used to predict the probabilities of the different possible outcomes of a categorically distributed dependent variable, given a set of independent variables.

Reference:

[1] http://www.cnn.com/2017/11/05/us/texas-church-shooting-latest/index.html

[2] https://data.cityofboston.gov/Public-Safety/Crime-Incident-Reports-July-2012-August-2015-Sourc/7cdf-6fgx

[3] Wikipedia, https://en.wikipedia.org/wiki/Multinomial_logistic_regression