**PROJECT PROPOSAL**

1. The analysis of crime rate and census properties in the US according to the states and cities in 2013 would be compared. The safety will be benchmarked up to the gender, age, race and per capita person income data**1**. The prediction of the safest areas in the future would be determined.
2. We will try to reach the answers of;
   1. Which property(age, gender, race) does effect crime rate mostly?
   2. Which state and city will be the safest all over the country in the future?
   3. In terms of violent crime, where is the most probable place to be the safest and insecure one?
   4. How does the crime rate change with the age and sex? Does the excess of women population make a place safer or not? Does young population(15-24 ages) effect the crime rate positively?
   5. How the income of the citizens effect the crime rate by state?
3. We will basically use three data sets in this project. One of them is FBI Crime data set**2** recorded in 2013 by state and city. The other one is United States Census data set**3** in 2010 extracted from the census official site. The third one is Personal Income data set**4**taken from the Bureau of Economic Analysis of US. These data sets would reflect the projection of 2010-2013 so maybe the results should be analyzed in other years-periods for getting better solutions. Our project does focus on limited years section though.
4. We are planning to use Rapid Miner as data-minig tool and Naive-Bayes or k-nearest neighbors algorithm in terms of data-mining algorithms. We plan to show the results as drawing different kinds of plots at the end.

**1** https://www.bjs.gov/content/pub/pdf/VIOCRM.PDF

**2** <https://ucr.fbi.gov/crime-in-the-u.s/2013/crime-in-the-u.s.-2013/tables/table-8/table_8_offenses_known_to_law_enforcement_by_state_by_city_2013.xls/view>

**3** <https://www.census.gov/data/datasets/2010/demo/popest/modified-race-data-2010.html>

**4**<https://www.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=30&isuri=1&7022=2 0&7023=7&7033=-1&7024=non-industry&7025=4&7026=xx&7027=2013&7001=720&7028=-1&7031=xx&7040=-1&7083=levels&7029=20&7090=70>