

## Problem statement: Crime rate prediction using Machine Learning

Use machine learning to predict the percentage of crime taking place in the metropolitan areas of US by using the dataset provided.

Description of dataset is as follows -

1- land\_area : size in square miles

2-percent\_city: percent of population in central city/cities

3-percent\_senior: percent of population  $\leq 65$  years

4-physicians: number of professionally active physicians

5-hospital\_beds: total number of hospital beds

6-graduates: percent of adults that finished high school

7-work\_force: number of persons in work force in thousands

8-income: total income in 1976 in millions of dollars

9-crime\_rate: Ratio of number of serious crimes by total population

10-region: geographic region according to US Census

The file contains data of 99 standard metropolitan areas in the US. The data set provides information on 10 variables for each area for the period 1976-1977. The areas have been divided into 4 geographic regions: 1=North-East, 2=North-Central, 3=South, 4=West.