Analysis of U.S. Regional Crime Rates

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Abstract

After doing an overview of the dataset provided and setting our goal and procedure, we process the data then build two regression models. We also interpret the variables effect on crime rate prediction. Finally , we present the discoveries from the testing result and give suggestions and some further thoughts.

Goal and Procedure

- 1. Using the data given to create a regression model.
- 2. Based on the model, give suggestions on the reduction of the number of serious crimes in their county.
- 3. Further thoughts about the findings.

Model Building

data Overview

- 1. Geographic Data: Land Area, Geographic Region Demographic Data: Total population, Percent of population
- 2. aged 18-34, Percent Bachelors Degree
- 3. Economics Data: Percent Below Poverty Level, Total Personal Income, Per Capita Income