

STAT5103 Assignment 4 (Due date: Friday Nov 23, 11:59pm) [Provide all your R-code]

Data: US Crime in 50 states (sample size = 50)

Variables

- X_1 : land area
- X_2 : Population 1985
- X_3 : murder
- X_4 : rape
- X_5 : robbery
- X_6 : assault
- X_7 : burglary
- X_8 : larceny
- X_9 : auto theft
- X_{10} : U.S. states region number
- X_{11} : U.S. states division number

Perform a factor analysis on the variables X_3 to X_9 in the US crime data.