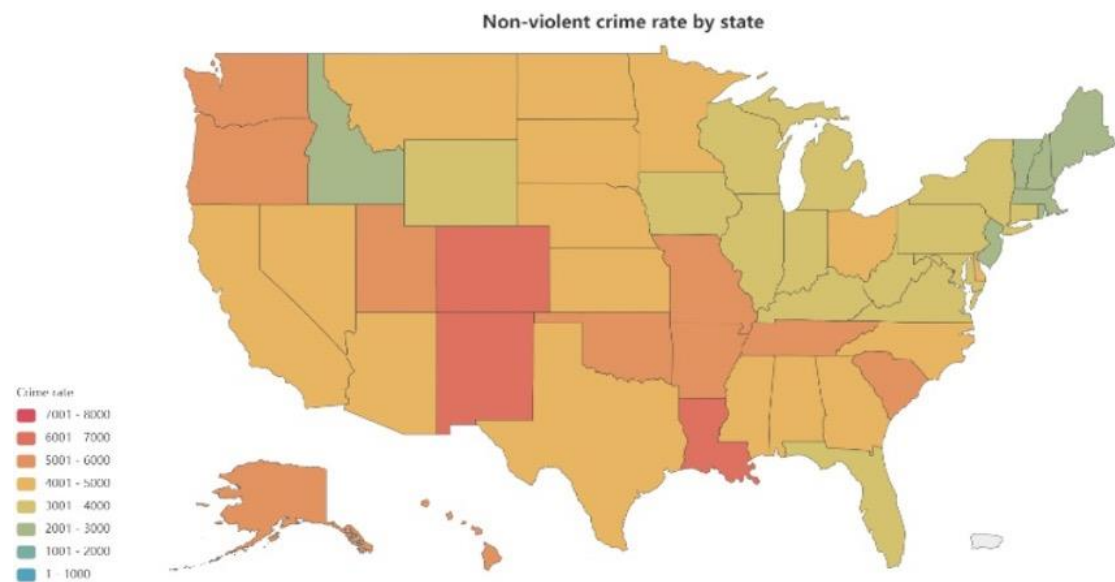
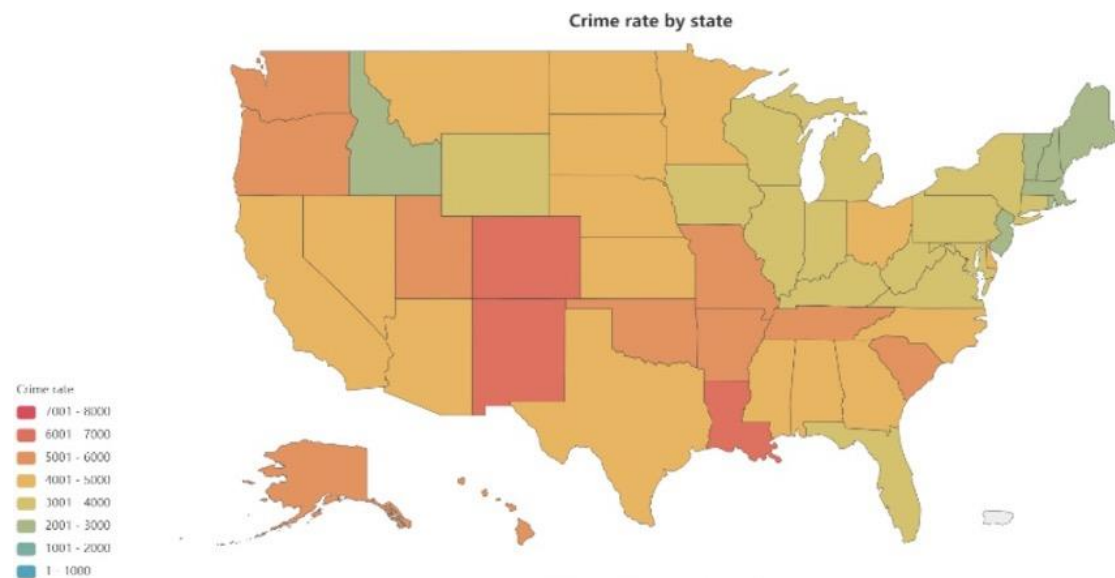


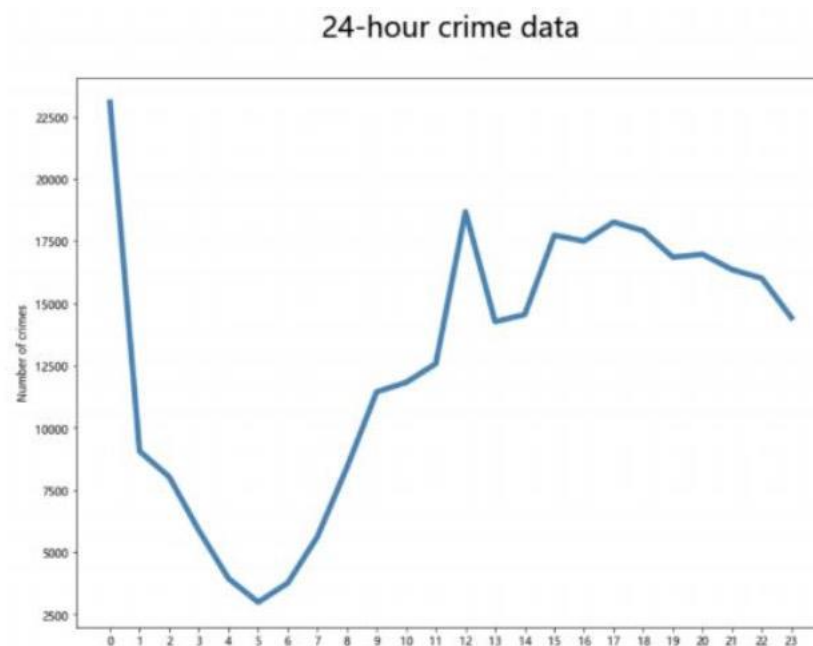
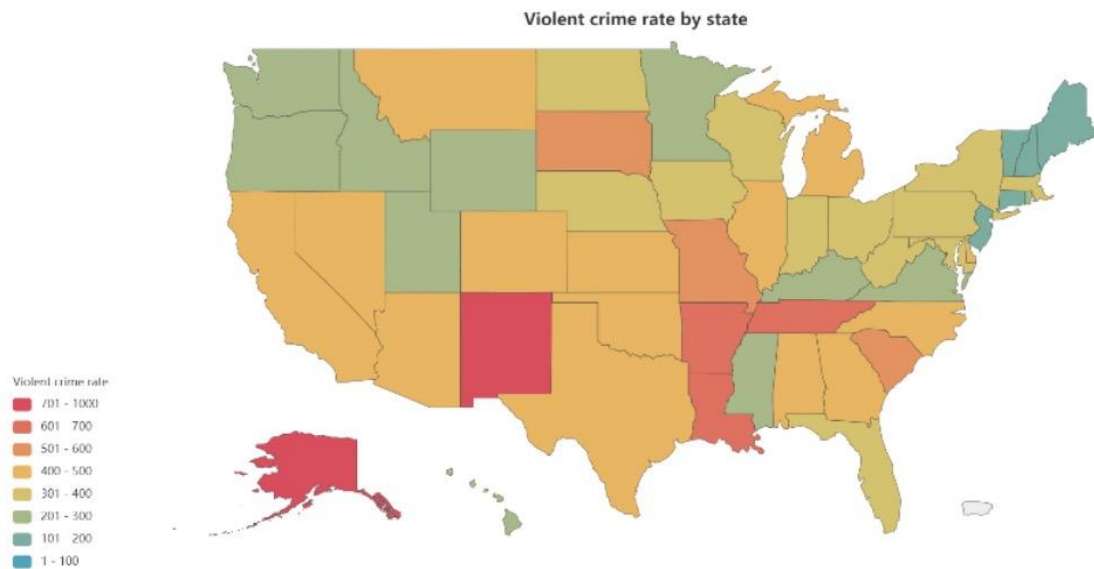
The crime statistics of United States

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(ii)





(iii)

In my mid-term project, I utilized a line graph to illustrate the fluctuations in crime rates across different times of the day.

For the final project, I represented the crime rates of each state on a map of the United States, employing varying shades of color to indicate the intensity of crime rates. The darker the shade, the higher the crime rate in that state.

(iv)

The data from the line chart indicates that the peak of crime rates occurs at midnight, while the lowest point is at 5 a.m. Generally, the morning hours exhibit comparatively lower crime rates.

The color gradients on the map reveal that coastal states typically have lower crime rates

compared to inland states. Additionally, states with more advanced economic development tend to have lower crime rates.

(v)

In the midterm analysis, the data encompassed all recorded crimes in Maryland from July 1, 2016, to August 8, 2023, including specific details about the time and location of the crimes. I believe this dataset offers a broad reference value.

For the final project, the focus was on the average crime rates in each state across the US for the year 2023.

(vi)

By synthesizing insights from these charts, we can gain a preliminary understanding of the overall safety landscape in the United States and assess the security level of our own region. This analysis underscores the importance of being vigilant about safety and suggests minimizing outdoor activities during times when crime rates are notably high.

Github: <https://github.com/zhg15/2415-Final-project>