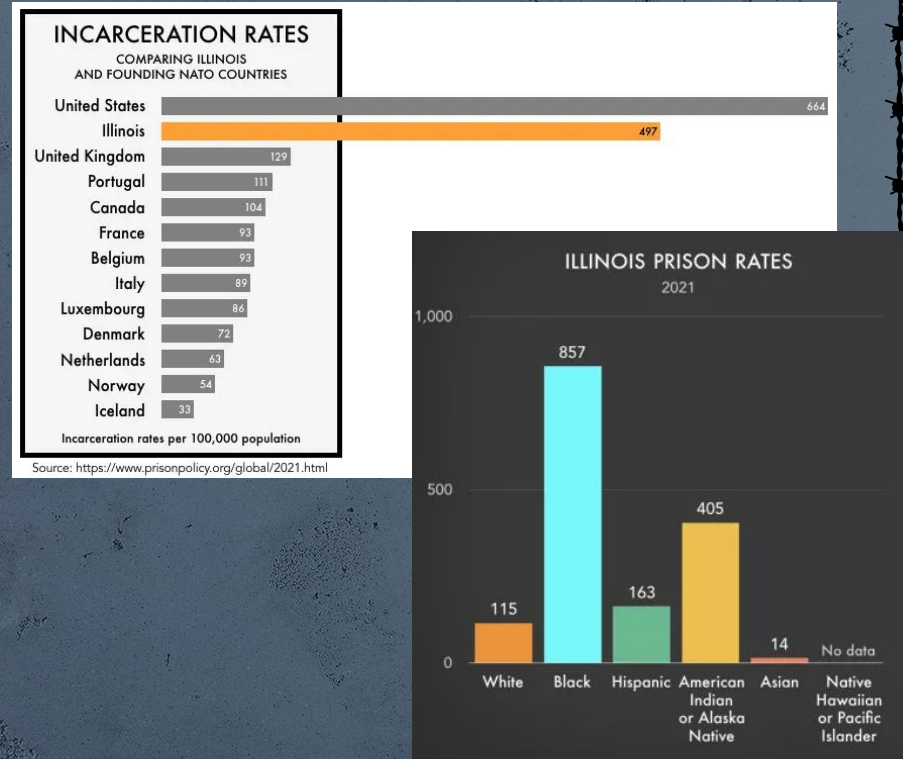


# **Data-Driven Exploration of the Illinois Prison Population**

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Thoong Tran, and Quang Le

# Recap of our problem

- The Illinois correctional system is intricate, contending with a range of issues like overcrowding and racial disparities.
- Illinois criminal justice system is plagued by disparities during the sentencing for the crime.
- Find out:  
**Which** crimes are the most committed,  
**who** commits those crimes,  
**how sentences differ** based on who commits those crimes,  
and **how likely** is a crime to be repeated.





# Data We Utilized

- Information from Data:
  - Individuals within the criminal justice system
  - Identification, Demographic Details, Admission History, Sentencing Information, and Relevant Dates.
- Key Columns:
  - Holding Offense, Admission Type, Sentence Time (Year and Months), County, Sex, and Race.



**ILLINOIS DEPARTMENT  
OF CORRECTIONS**

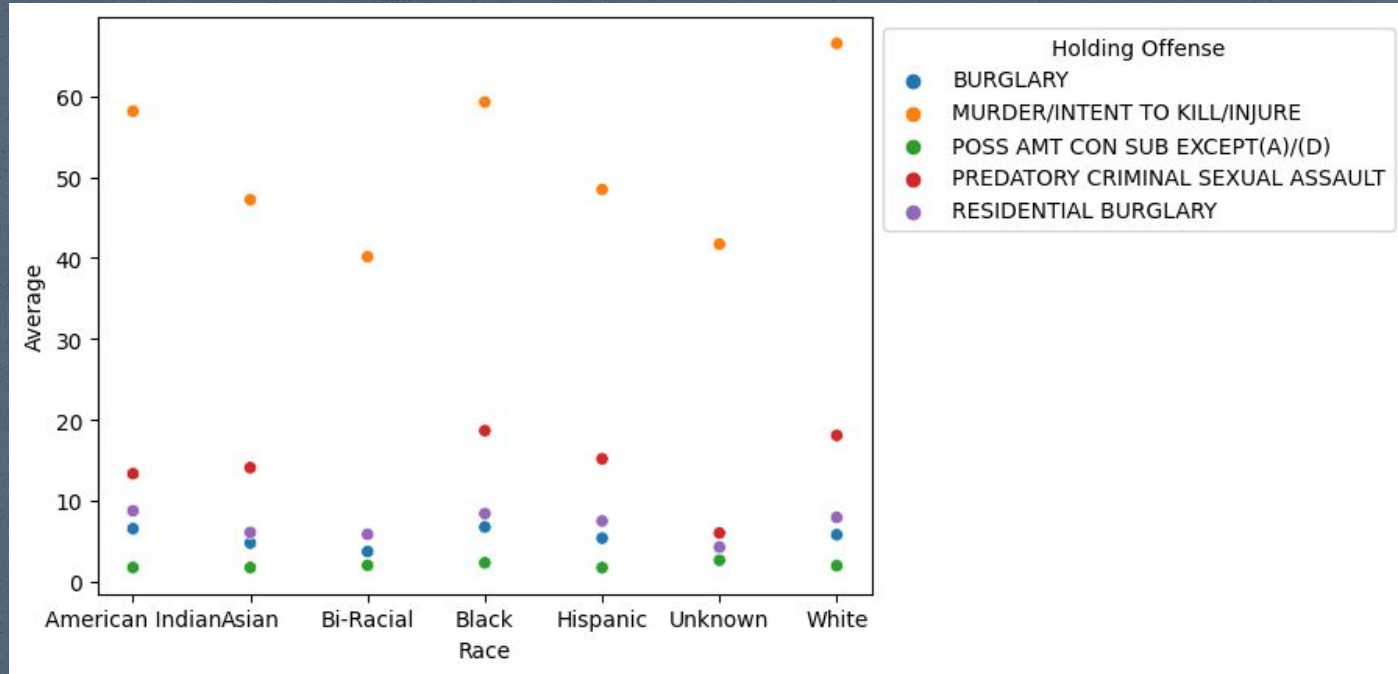


# Findings

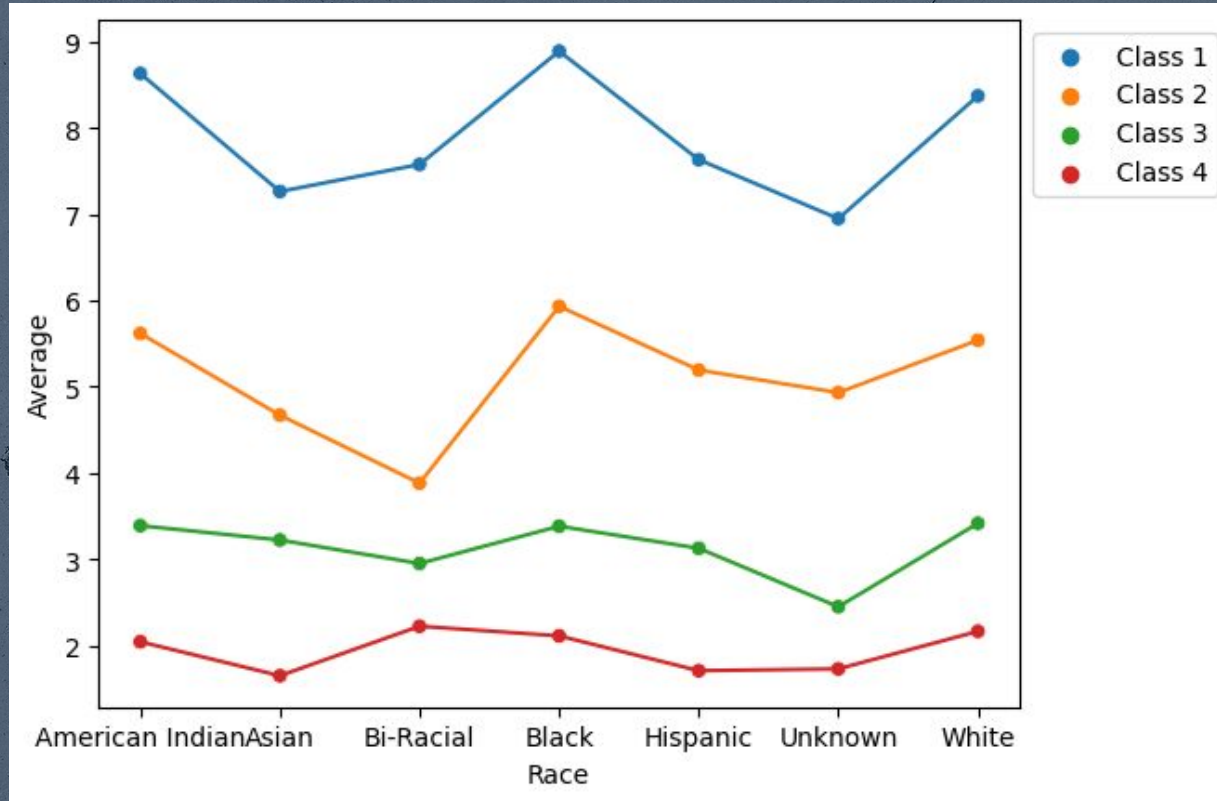
The background is a dark blue, textured surface. On the right side, there is a dark silhouette of a person standing, facing left. On the left side, there are several vertical white lines of varying heights, some reaching the top and others stopping at different levels, creating a stylized architectural or graphic element.



# Finding #1: Sentence duration seemed to be the same for the most convicted crimes



## Finding #1.1: Looking at lower classed crimes shows some racial disparity

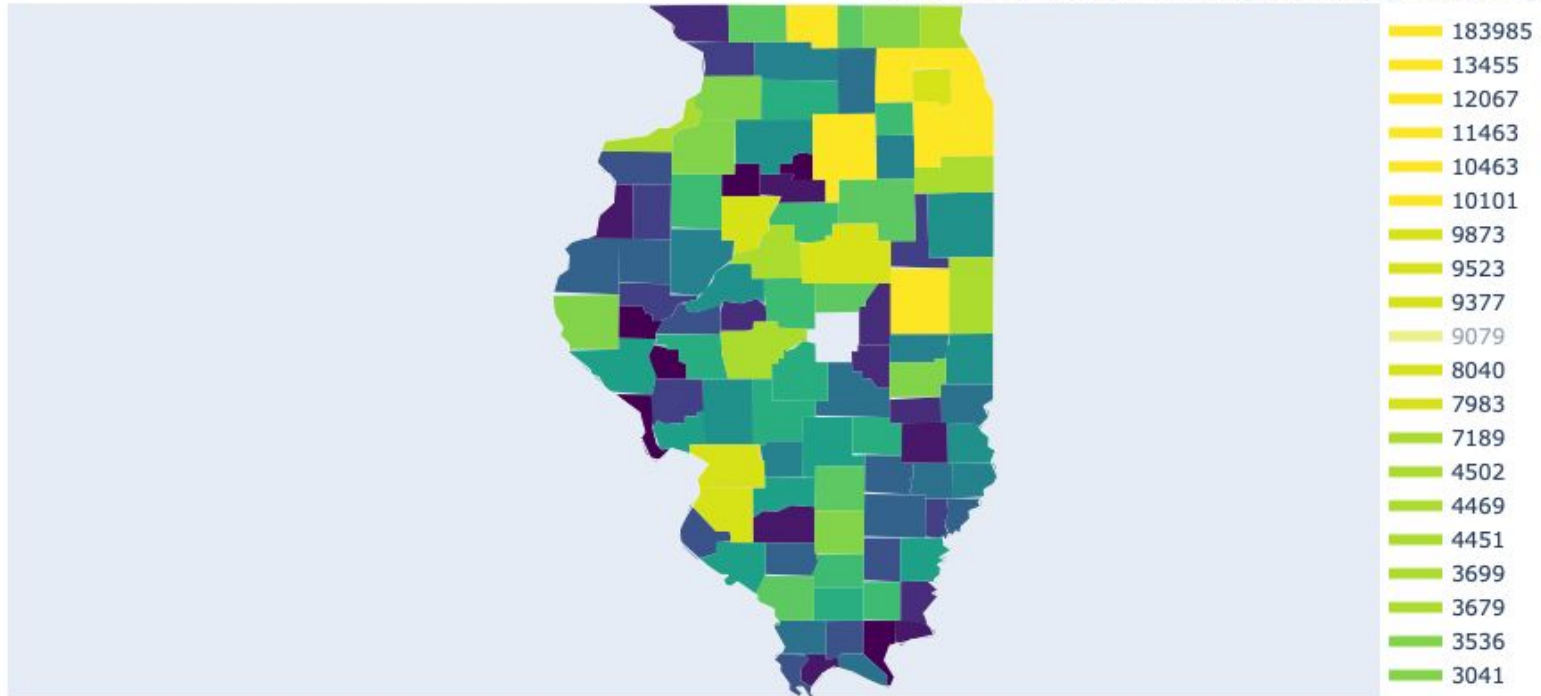




## Finding #2 - Counties and Number of Crimes Convicted

Crime Heatmap of Illinois Counties

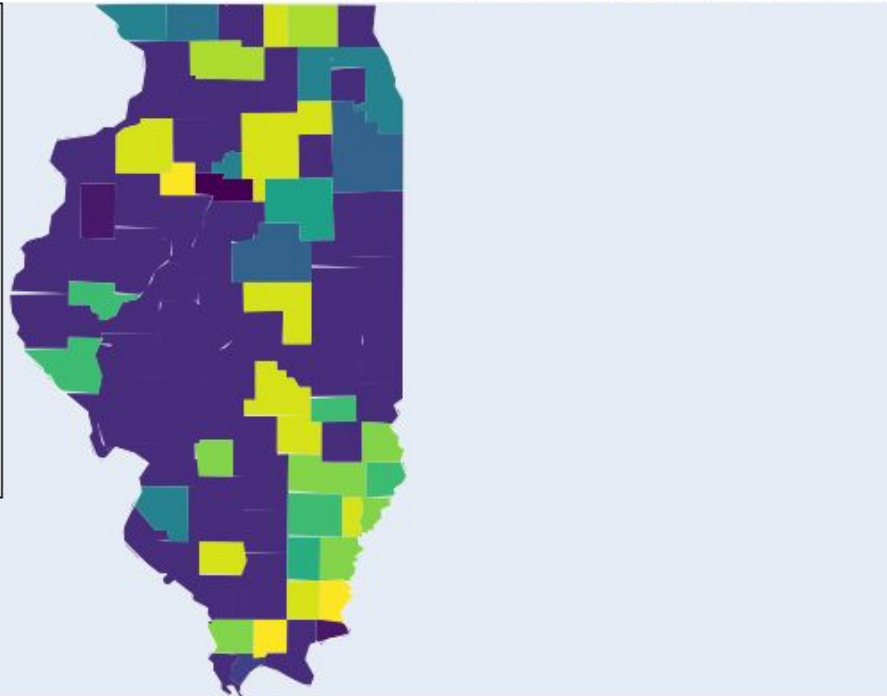
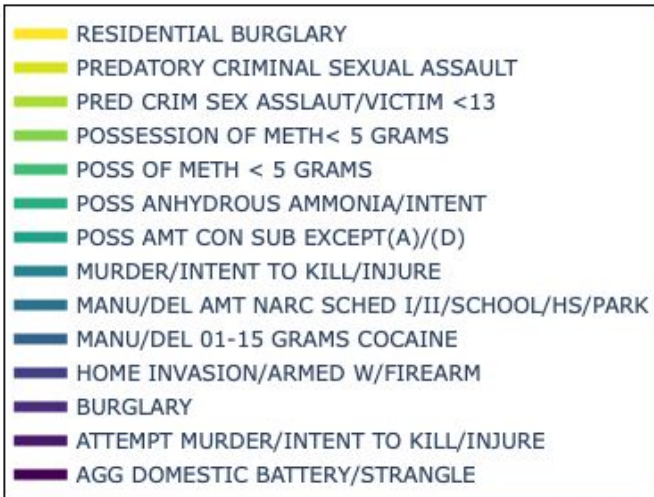
Number of Crimes Committed per County (Since 2005)



# Finding #2.1 - The most common crimes that occur in Illinois based on county.

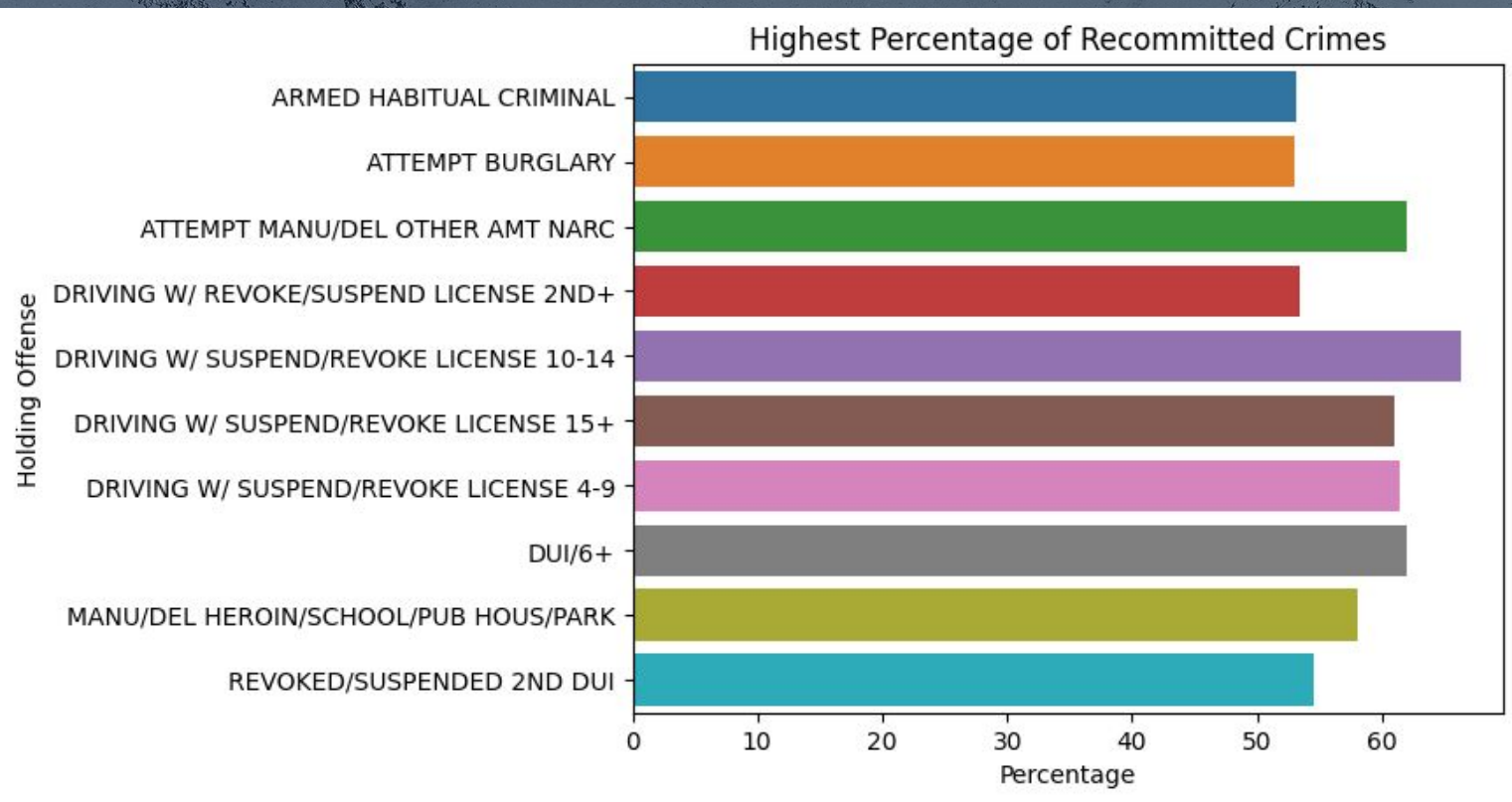
Crime Heatmap of Illinois Counties

Types of Crimes Committed per County (Since 2005)

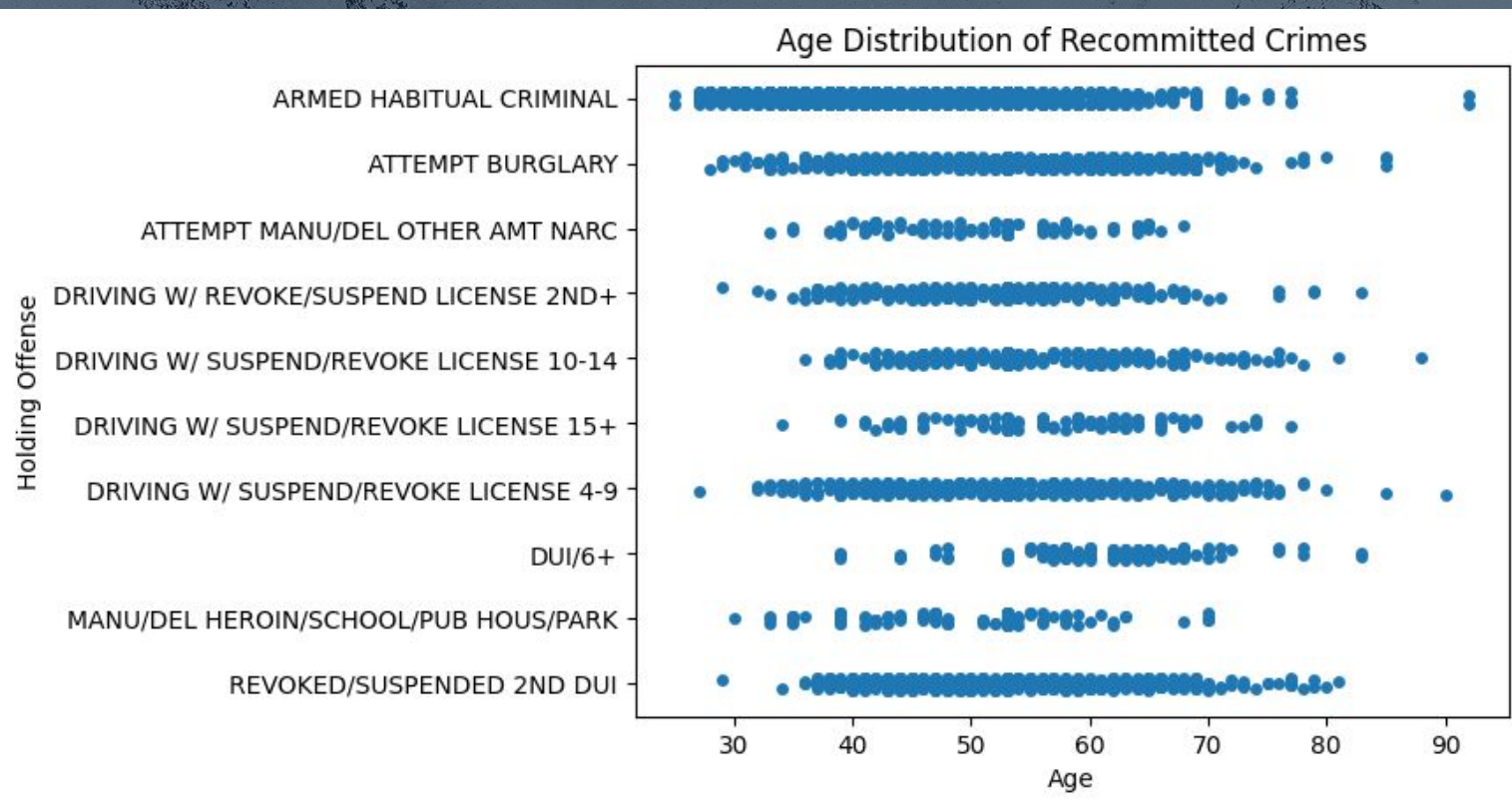




## Finding #3 - Most recommitted crimes



## Finding #3.1 - Most recommitted crimes





# Solutions

The background is a dark blue, textured surface. Several vertical white bars of varying widths are positioned across the image. On the right side, there is a dark silhouette of a person standing, facing left. The word "Solutions" is centered in a large, white, sans-serif font.



# Solutions

- Propose new programs for criminals to participate in rather than prison time.
  - Many of the repeated crimes are driving or drug related.
  - Current solution (placing in prison) is not working.
  - Programs to teach offenders and extend help for those who need guidance.
    - i.e. Rehab





# Solutions

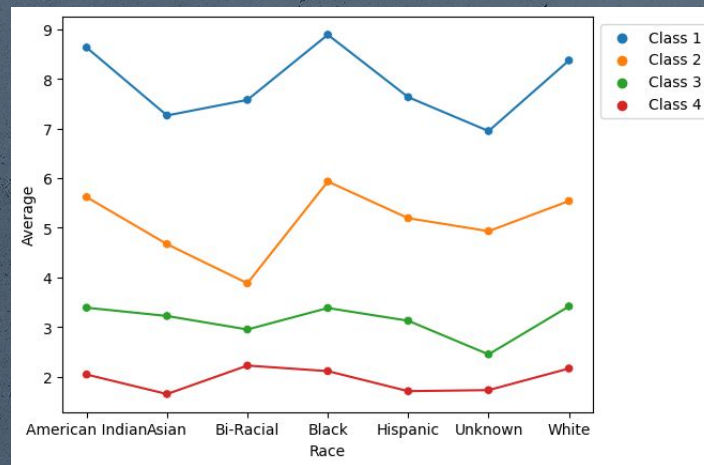
- Prevent crimes before they even occur.
  - The best way to lower the number of people in jail is to lower crime.
  - More presence in common areas.
  - Instead of making punishment more severe, make accountability more certain.





# Solutions

- Propose laws that sentence criminals based on their crime, not their demographic.
  - Goal would be to straighten these lines.
  - Current solution (placing in prison) is not working.





The background is a dark blue, textured surface. Several vertical white bars of varying widths are positioned across the image. On the right side, there is a dark silhouette of a person standing, partially obscured by the white bars.

Thank you