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Some bias can be subconscious



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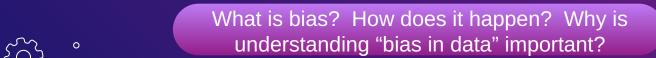






INTRODUCTION











INTRODUCTION

As humans, we have many biases, both implicit and explicit. Biases are systematic errors in thinking influenced by cultural and personal experiences. Biases distort our perception and cause us to make incorrect decisions.

Computers, data, and algorithms are not actually completely objective. It is true that data analysis can help us make better decisions, but it is not immune to bias. Humans create technologies and algorithms. As a result, they often have human biases encoded into them.





TYPES OF BIASES IN DATA

















TYPES OF BIAS







CONFIRMATION BIAS

HISTORICAL BIAS

AVAILABILITY BIAS

Venus is the second planet from the Sun

SELECTION BIAS

It's the closest planet to the Sun and the smallest SURVIVORSHIP BIAS

OUTLIER BIAS







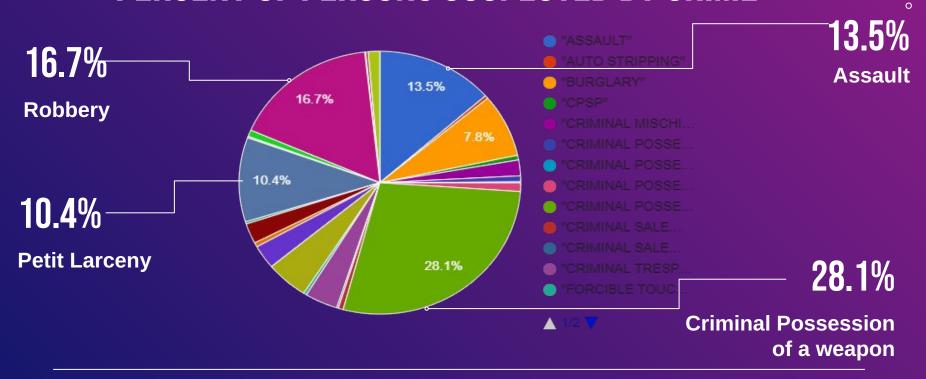
IN DATA







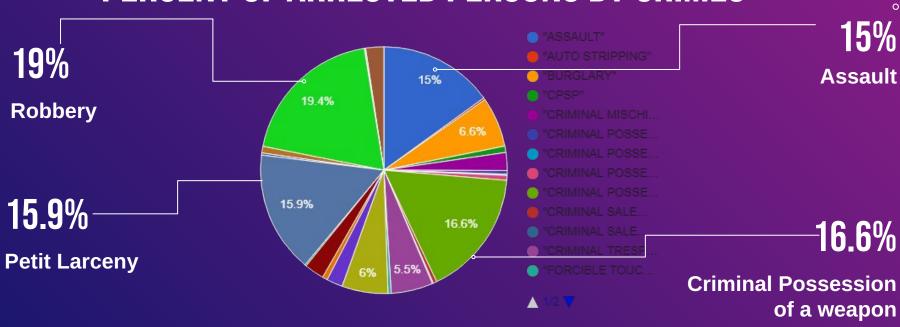
PERCENT OF PERSONS SUSPECTED BY CRIME







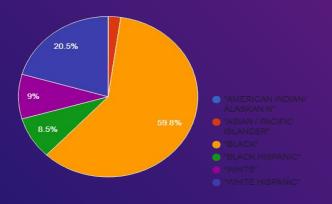
PERCENT OF ARRESTED PERSONS BY CRIMES



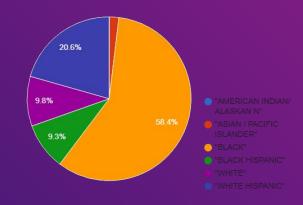




PIE CHART (ARRESTED VS SUSPECTED BY RACE)



TEAM



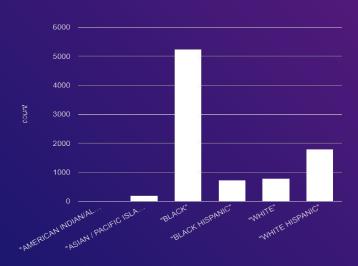
Charts represent the suspects who were stopped and frisked and those who were actually arrested for their suspected crimes. Compared to other races Blacks are twice times more likely to either be suspected or arrested during these stop and frisks. Does this mean that Blacks commit the most crimes? Or are they just twice times more likely to be stopped by a police officer and suspected of a crime. Is that a fair assumption?

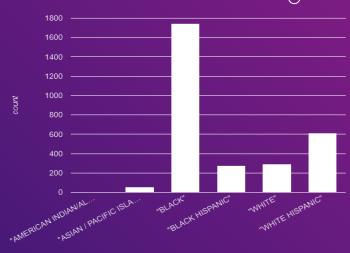
MENU

ANALYSIS



SUSPECTED OR ARRESTED BASED ON RACE





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ANALYSIS

ALL STOPPED - NUMBER ARRESTED





What suspected stop and frisk crimes lead to arrest?

Out of 8764 stop and frisk records for 2019, only 2986 lead to an actual arrest.

This number does not tell whether the number of arrests were actually convicted of the suspected crime.

One can conclude that about 65% of stop and frisk detainments are unnecessary and harassment by the cops. (Would this be accurate based on the chart?)







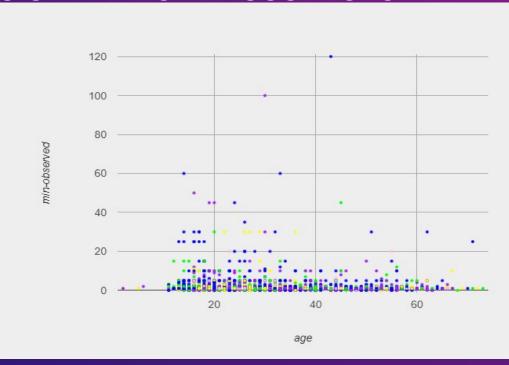


BOROUGHS OF ARRESTED SUSPECTS

Scatter plot was made to show the different boroughs arrests were made in the stop and frisks, based on age and minutes observed for the suspected crimes.

Surprisingly, the main Borough that arrests were made in was Manhattan.

Is it a fair assumption to make, that ibyou are a black teenager or young adult, and you visit the Manhattan area that you are likely to be suspected of and arrested for a crime?





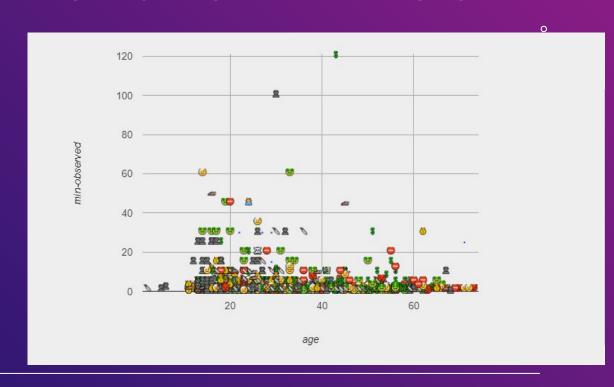


ARRESTED BY CRIME BASED ON AGE AND TIME OBSERVED

We analyzed whether the types of crimes had a correlation to age and whether that in itself had an impact on the time taken to observe the crime. We filtered to only show the individuals who were actually arrested.

Most crimes committed by teenagers to young adults appeared to be robbery. Most of the suspects were arrested within minutes of being suspected.

Is it fair to say that law enforcement is targeting this population or that this population prefers to rob others and does not like to work for the things they want?





RACE OF ARRESTED SUSPECTS

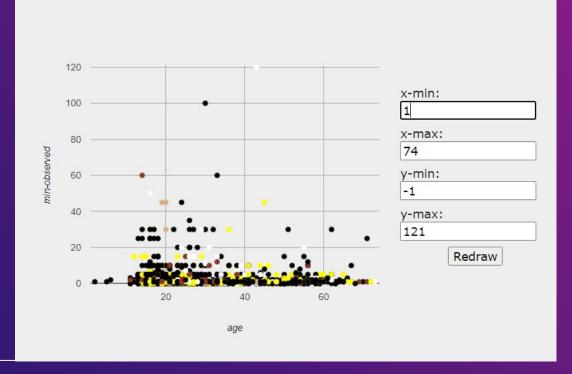




Scatter plot was made to show the different races of suspects arrested.

Here we see that blacks no matter the age are predominantly the ones that are arrested for suspected crimes.

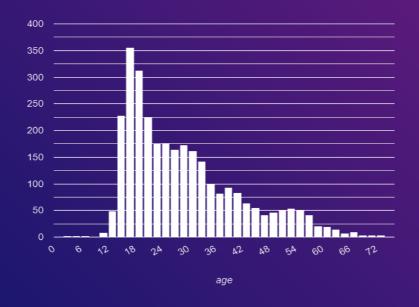
Does this mean that Blacks are the main targets of stop and frisk and law enforcement?

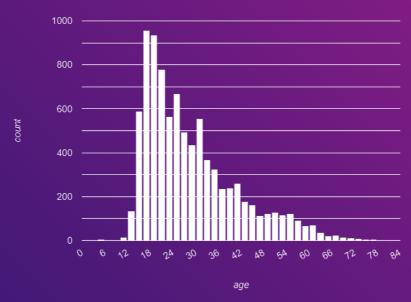






HISTOGRAM - AGE RANGE OF ARRESTED VS SUSPECTED





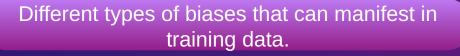






DATA SCIENCE **& ETHICS**









HISTORY OF DATA SCIENCE

MERCURY

It's the closest planet to the Sun and the smallest one

VENUS

Venus is the second planet from the Sun in the Solar System



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NEPTUNE

It's the farthest planet from the Sun. It's also the fourth-largest









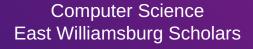




LATOYA BOLAND

















DATA ANALYSIS MENU ANALYSIS TEAM

RESOURCES

- Intro
 - Intro Resource 1
- **Types of Biases**
 - Types of Biases Resource 1
 - Types of Biases Resource 2
- **Data Science Coding**
 - **Bootstrap Data Science**













