

By: Thomas Cornett

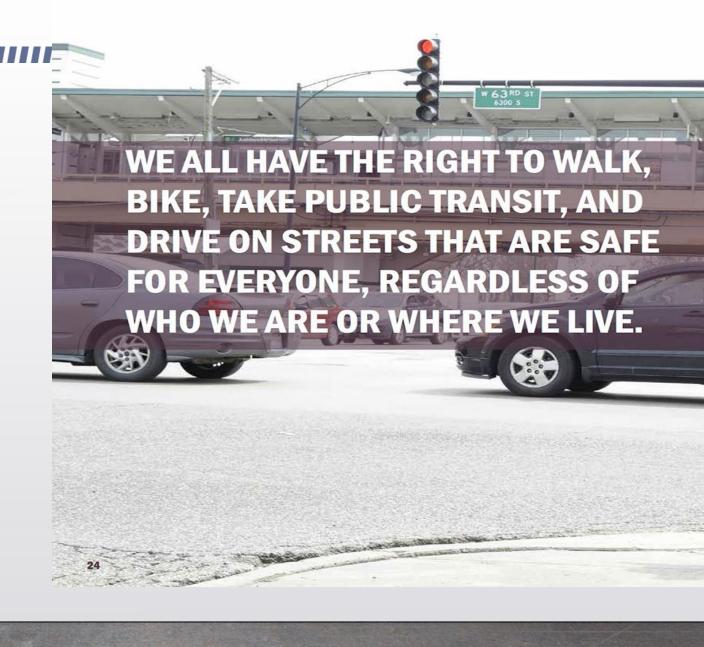
Instructor: Amber Yandow

Pace: Part-Time

Chicago Zero Vision

Chicago's drive to make the streets safer.

In 2017 Chicago started a campaign to eliminate traffic fatalities and serious injuries by 2026. Because of that pledge the city of Chicago has tasked me with trying to help them understand what is going on around them.



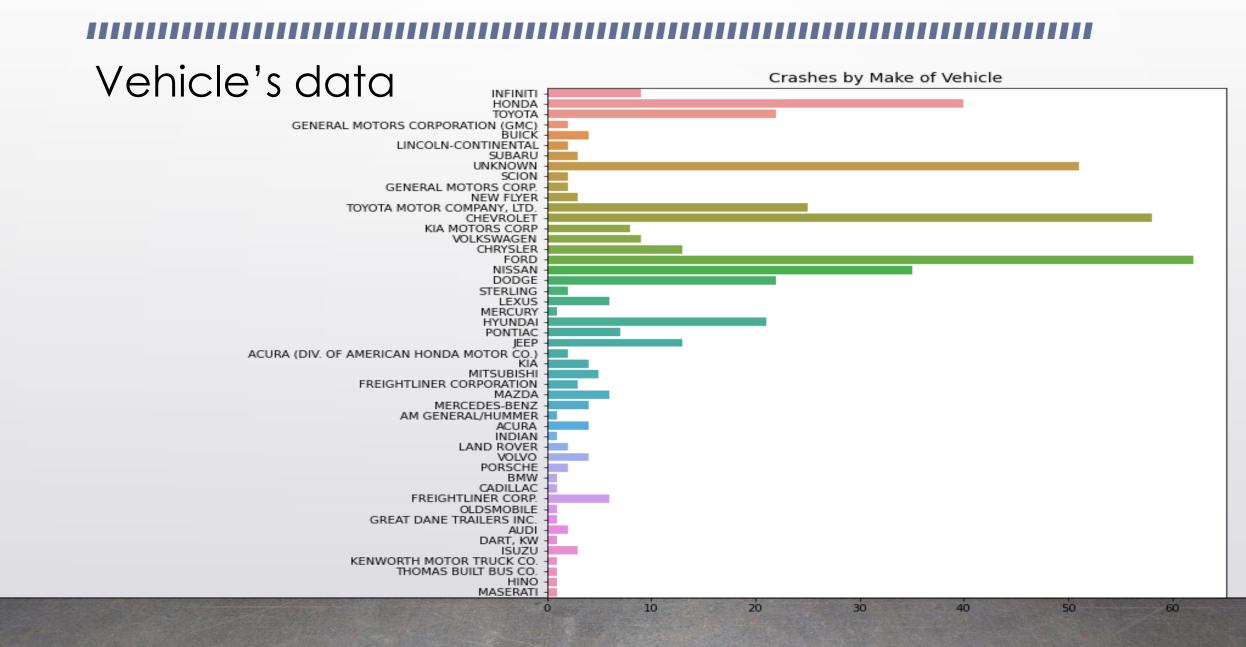
How will I accomplish that and what is the success rate?

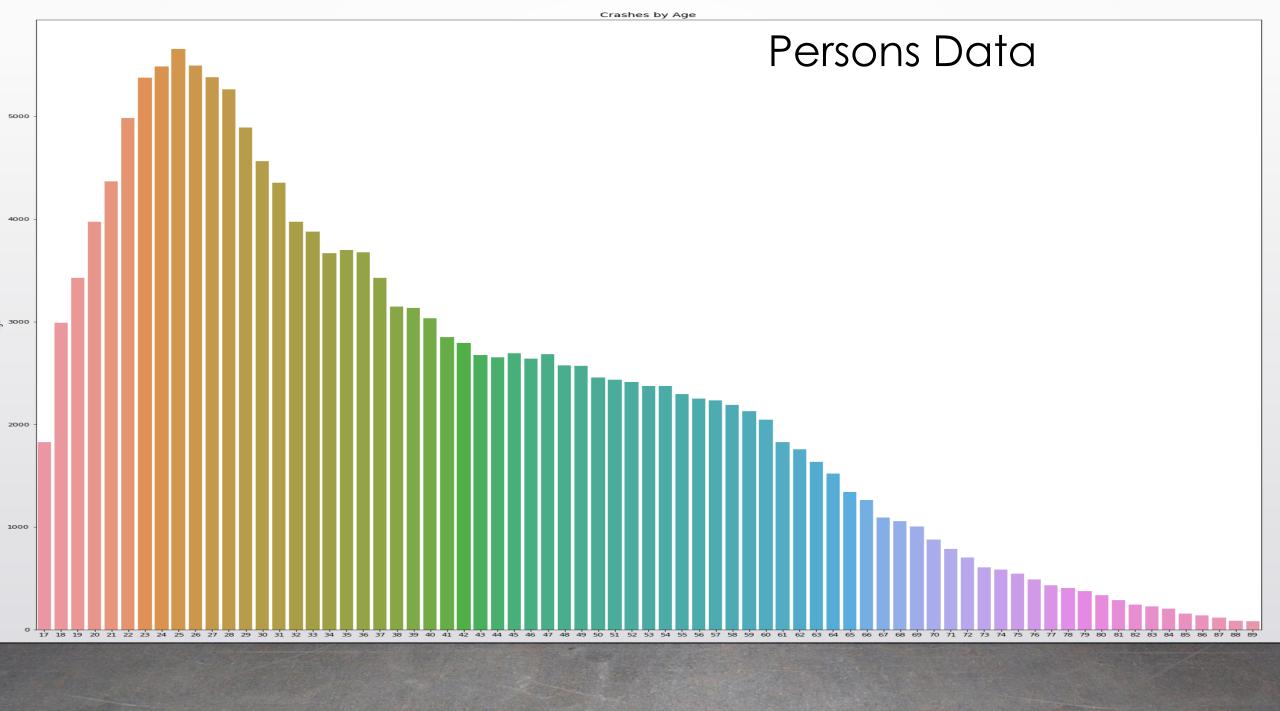
I am going to look at the crash data, persons data, and the vehicle data from the Chicago Open Data Portal.

My Model has been able to successfully predict 83% right.

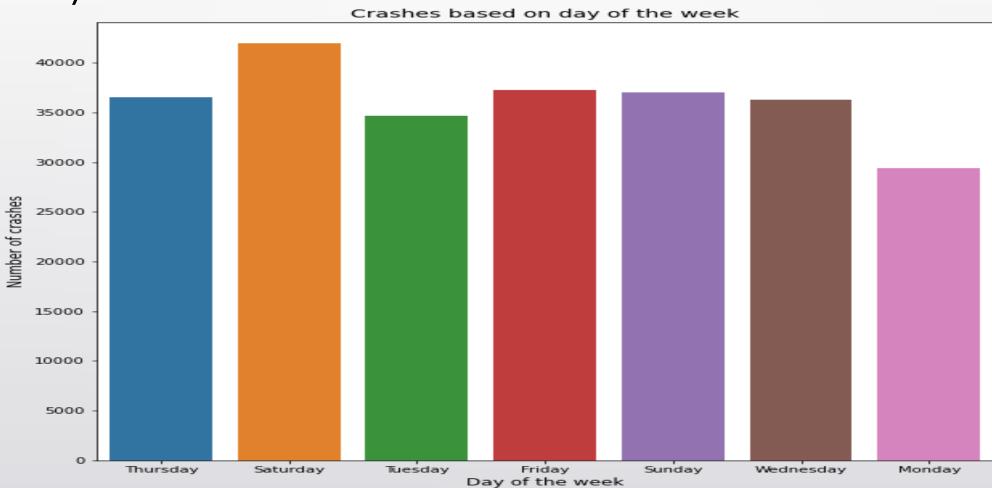
Crash Data Primary reasons there was a crash IMPROPER BACKING FAILING TO YIELD RIGHT-OF-WAY UNABLE TO DETERMINE OPERATING VEHICLE IN ERRATIC, RECKLESS, CARELESS, NEGLIGENT OR AGGRESSIVE MANNER IMPROPER OVERTAKING/PASSING IMPROPER LANE USAGE DISREGARDING TRAFFIC SIGNALS NOT APPLICABLE IMPROPER TURNING/NO SIGNAL EXCEEDING SAFE SPEED FOR CONDITIONS FOLLOWING TOO CLOSELY DISTRACTION - FROM INSIDE VEHICLE DRIVING SKILLS/KNOWLEDGE/EXPERIENCE FAILING TO REDUCE SPEED TO AVOID CRASH EXCEEDING AUTHORIZED SPEED LIMIT DISREGARDING ROAD MARKINGS ROAD CONSTRUCTION/MAINTENANCE DISTRACTION - FROM OUTSIDE VEHICLE WEATHER EQUIPMENT - VEHICLE CONDITION DISREGARDING STOP SIGN UNDER THE INFLUENCE OF ALCOHOL/DRUGS (USE WHEN ARREST IS EFFECTED) VISION OBSCURED (SIGNS, TREE LIMBS, BUILDINGS, ETC.) DRIVING ON WRONG SIDE/WRONG WAY DISREGARDING OTHER TRAFFIC SIGNS ROAD ENGINEERING/SURFACE/MARKING DEFECTS PHYSICAL CONDITION OF DRIVER -EVASIVE ACTION DUE TO ANIMAL, OBJECT, NONMOTORIST HAD BEEN DRINKING (USE WHEN ARREST IS NOT MADE) DISREGARDING YIELD SIGN CELL PHONE USE OTHER THAN TEXTING TURNING RIGHT ON RED BICYCLE ADVANCING LEGALLY ON RED LIGHT DISTRACTION - OTHER ELECTRONIC DEVICE (NAVIGATION DEVICE, DVD PLAYER, ETC.) OBSTRUCTED CROSSWALKS RELATED TO BUS STOP PASSING STOPPED SCHOOL BUS MOTORCYCLE ADVANCING LEGALLY ON RED LIGHT 75000 25000 50000 100000 125000 150000 175000

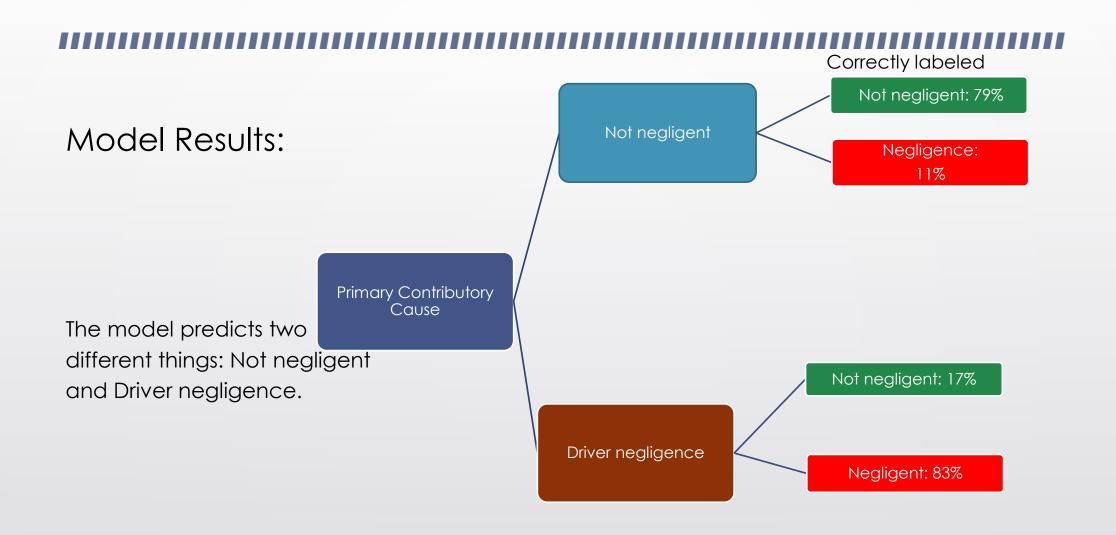
Total amount





Days of the week





Future works

- Road conditions and weather
- Mapping locations
- Improve the model with more recent and updated data.

Thank You for your time! Questions?