

# ***Predicting Causes Of Car Accident In Chicago***

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# OVERVIEW:

- Data Source
  - Objectives
  - Analysis
  - Conclusions
  - Suggestions
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- A decorative pattern of vertical bars of varying heights and shades of teal, located at the bottom of the slide.

# Data Source:

- Traffic Crashes - Crashes Data
- Raws: 480K / Columns: 49
- Dataset & Columns Description can be found here:

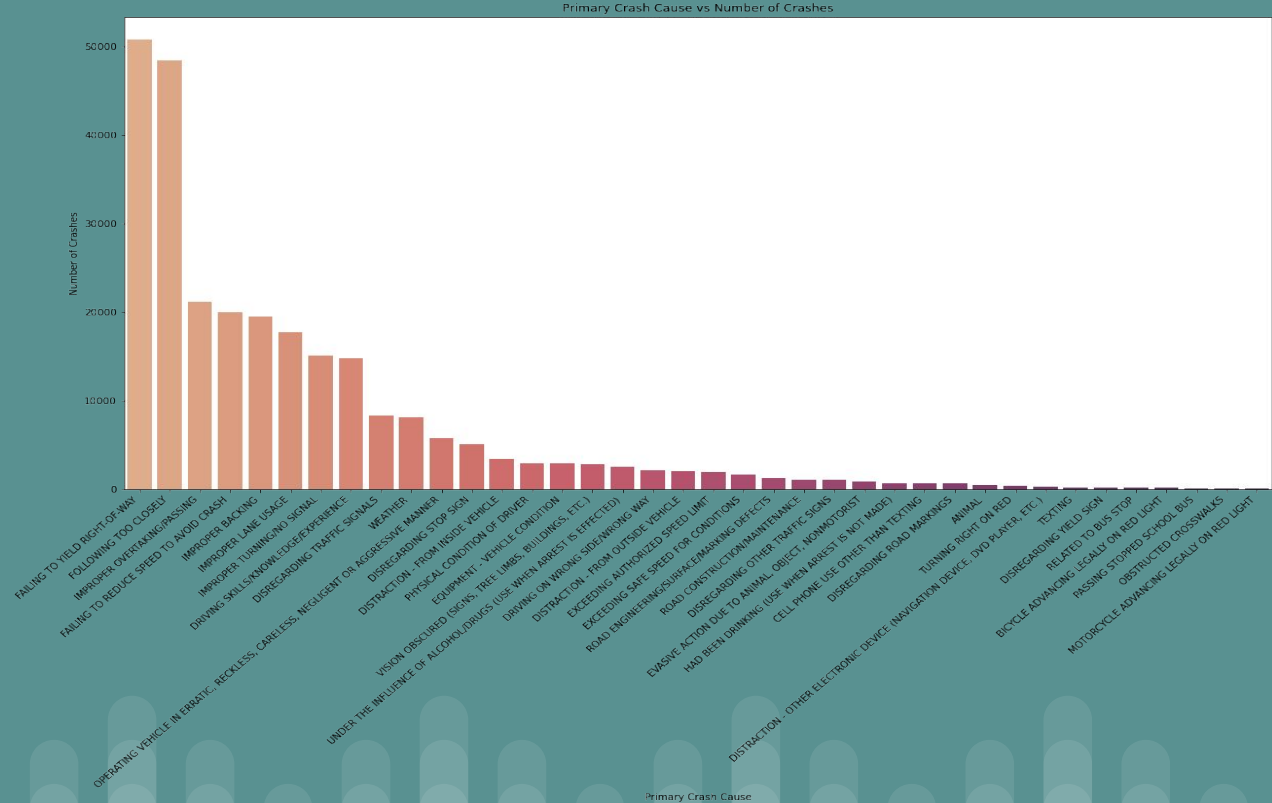
<https://data.cityofchicago.org/Transportation/Traffic-Crashes-Crashes/85ca-t3if>

# Objectives:

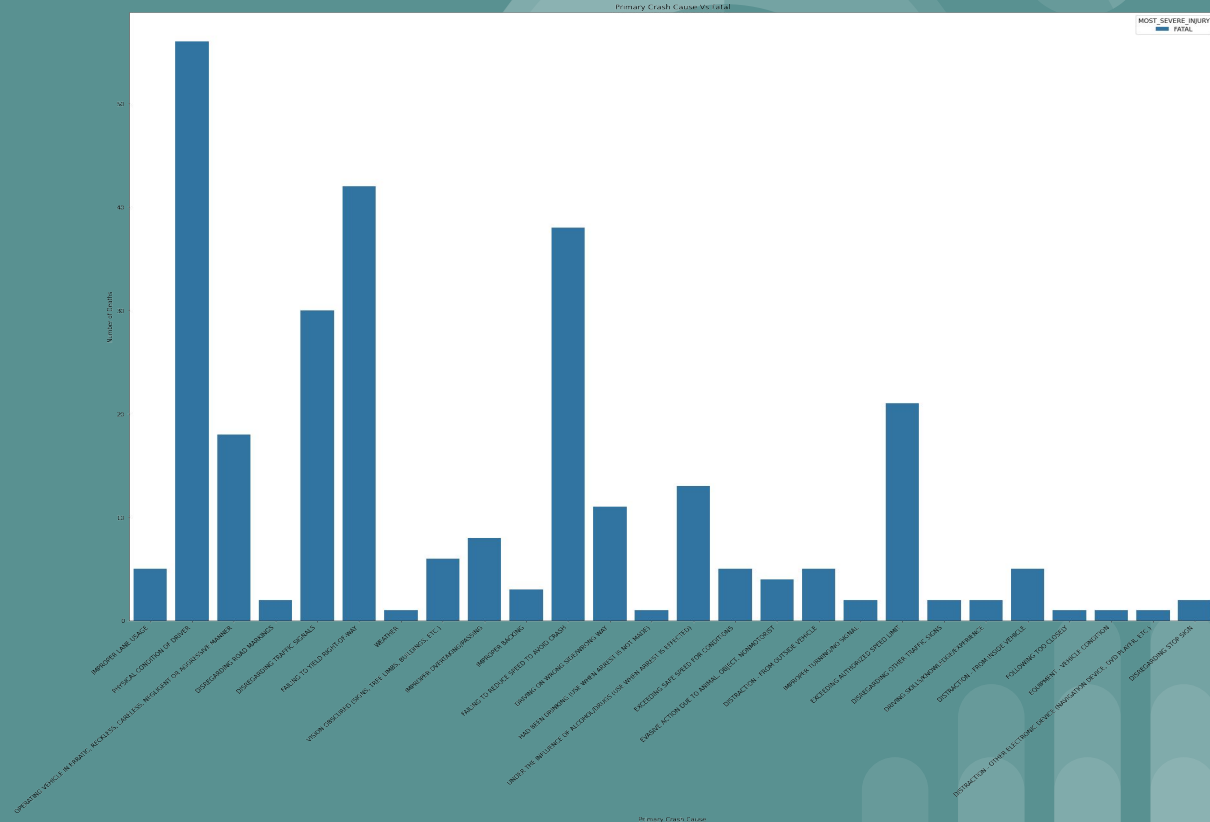
- Building a machine learning model to predict the primary cause of car accidents in the city of Chicago.
- Model will help Vehicle Safety Board reduce car accidents in the city of Chicago.
- Data exploration to look for any interesting patterns if any.

# Model:

- Model will be able to predict the Top 5 causes of car accident
- The graph show the primary cause of car accident Vs. number of car accident
- Failing to yield right of way is the top cause of crashes

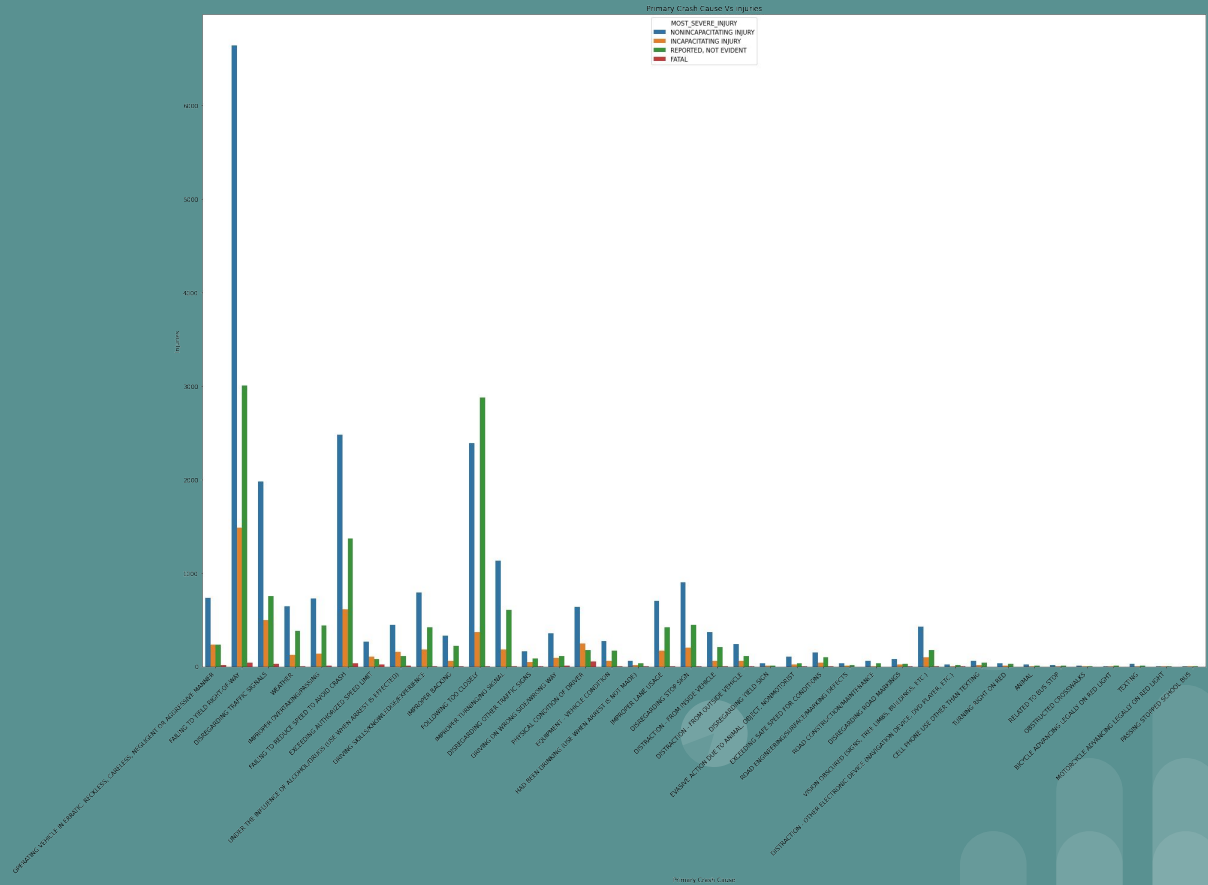


- Fatal injuries vs. primary cause of crashes
- Failing to yield right of way is the second cause of death in car crashes



# Injuries:

- The graph shows car crashes which causes any injuries.
- Failing to yield causes the most injuries as shown
- Following too closely comes in 2nd



# Conclusions:

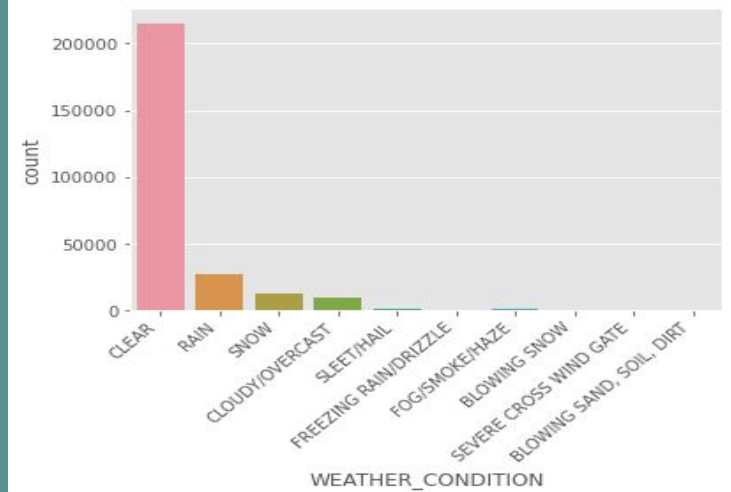
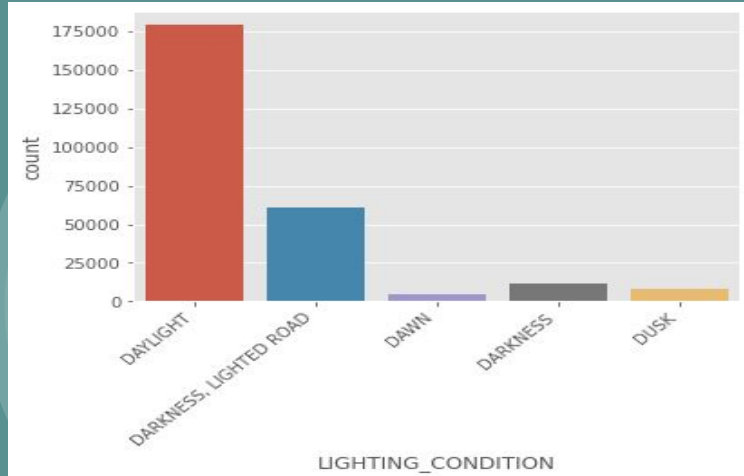
- With the help from the model you will be able to predict the cause of car accidents.
- You will be able to target those cause when you are looking for ways to reduce car accidents.
- You will be able to use the factors the model used to target the causes of car accidents.





# Suggestion:

- Look into the (Hours, Weekdays, Months) Columns to look into correlation to number of car crashes
- Look into the Weather, Light, Road conditions data for more insight as well.
- Weather and light graphes



**Thank you !**

