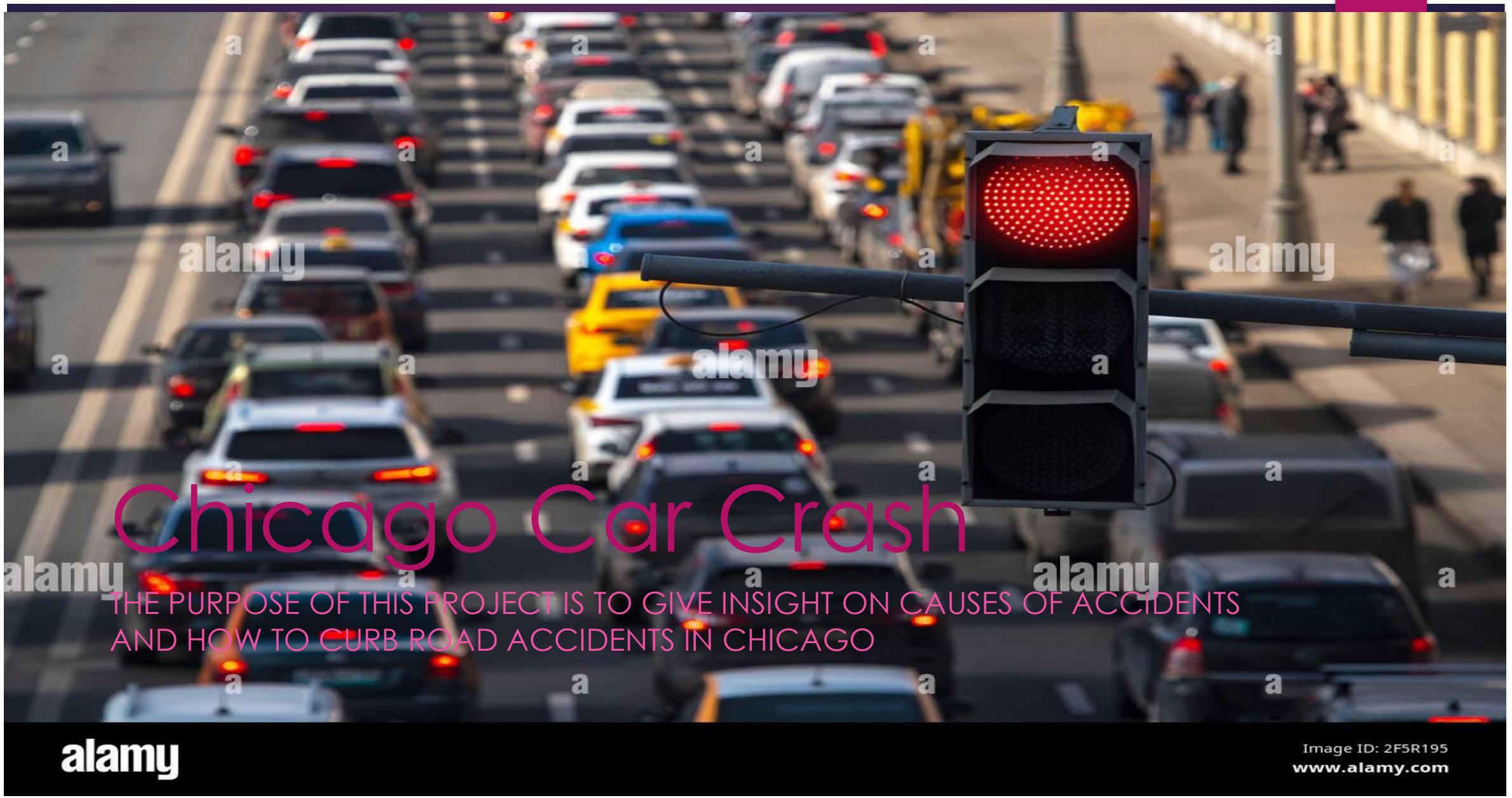


Chicago Car Crash

THE PURPOSE OF THIS PROJECT IS TO GIVE INSIGHT ON CAUSES OF ACCIDENTS AND HOW TO CURB ROAD ACCIDENTS IN CHICAGO

Data

- Data containing road accident records was provided in two separate datasets
- 1. Chicago crashes- Contains all accident records
- 2. People- Contains details of people involved in the accidents

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

Overview of Some Columns in the Data

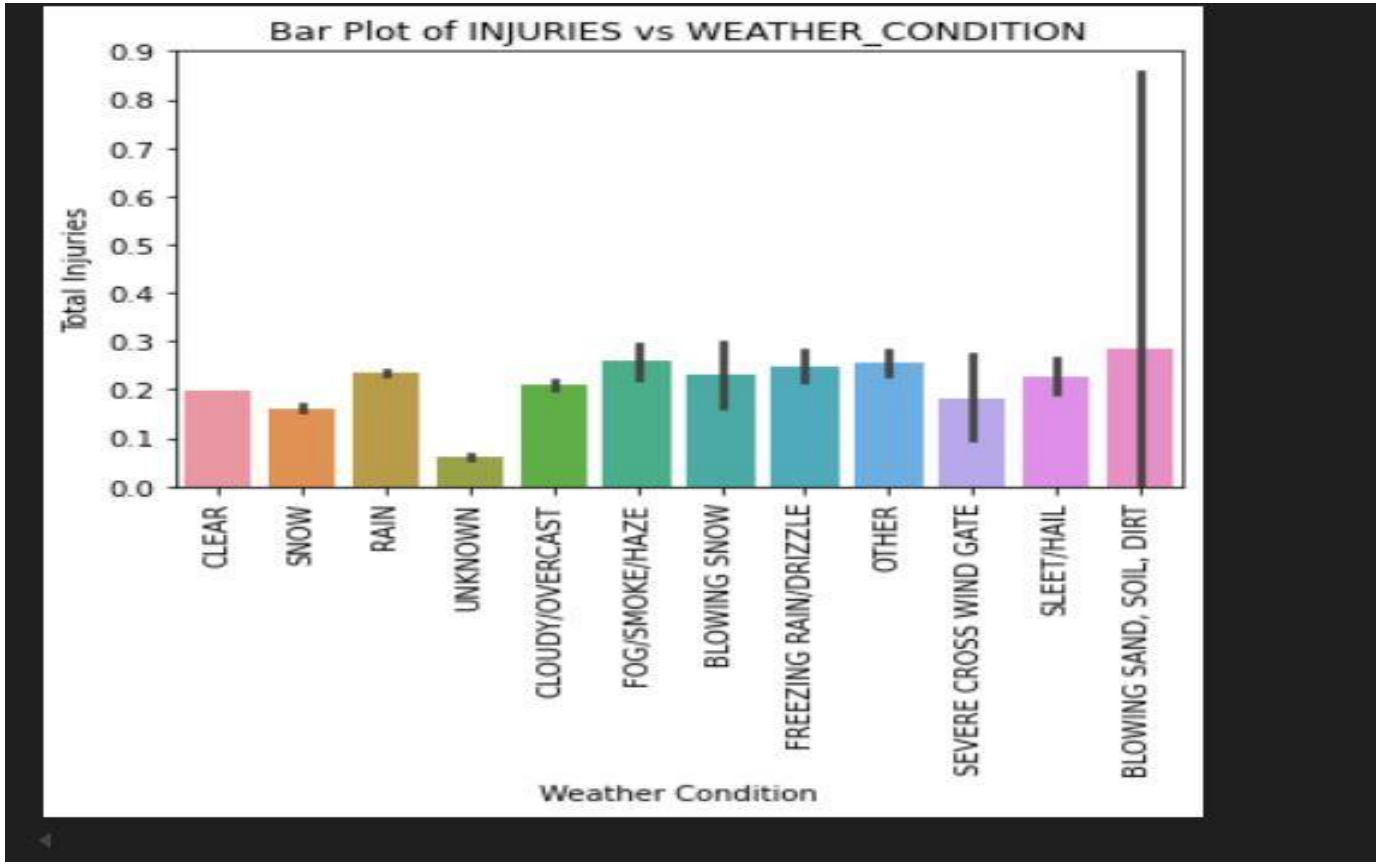
- **id**: Unique identifier for each crash.
- **crash_date**: Date when the crash occurred.
- **crash_time**: Time when the crash occurred.
- **town**: Town or location where the crash took place.
- **city**: City where the crash occurred.
- **state**: State where the crash occurred.
- **country**: Country where the crash occurred.
- **total_injured**: Total number of individuals injured in the crash.
- **total_killed**: Total number of individuals killed in the crash.
- **injury_incapacitated**: Number of injuries resulting in incapacitation.
- **injury_non_incapacitated**: Number of injuries not resulting in incapacitation.
- **most_severe_injury**: Description of the most severe injury sustained in the crash.
- **crash_type**: Type or nature of the crash (e.g., rear-end, side-impact).
- **contributory_cause**: Primary cause contributing to the crash.

Methodology

- Our mission is to identify patterns in our dataset.
- we need to clean the data, check for missing values, and determine which columns can be advantageous for our analysis.
- To explore the relationship between car crash frequency or severity and variables in the dataset, we can utilize visualization tools and machine learning models.

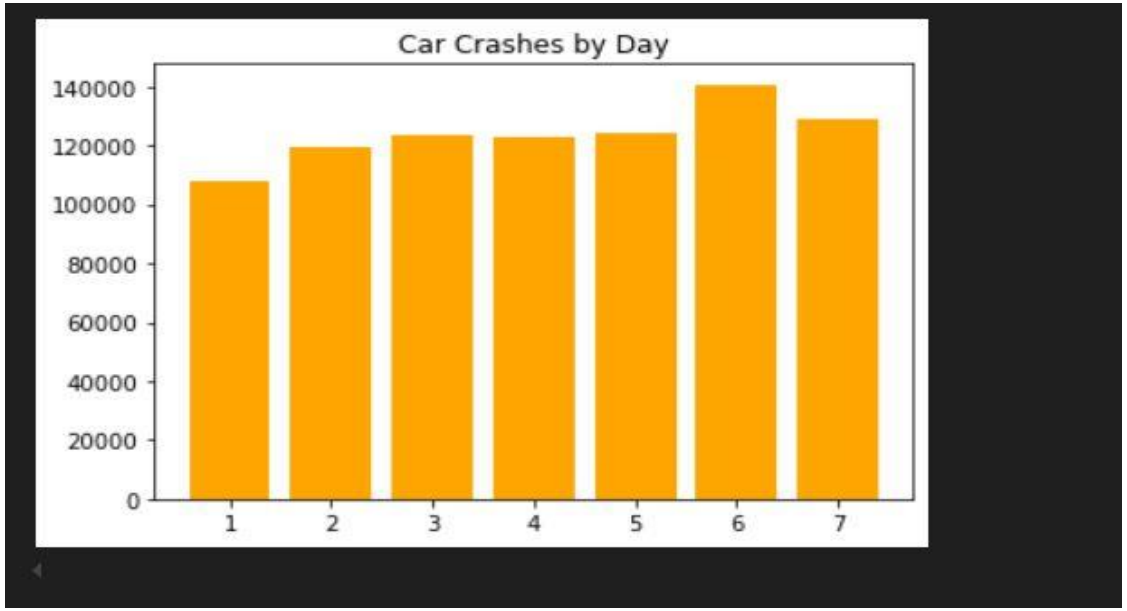
Analysis

- Accidents and weather conditions



Accidents by day of the week

- Highest accidents happen on day 5,6, and 7 (Weekends)



Crashes by hours of the day

- Most accidents occur between 05.00-10.00 HRS and 15.00-20.00 HRS