

# Car Crash Analysis

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# Introduction

This presentation aims to analyze car crash records in Chicago using Power BI visualizations. By examining various factors such as crash frequency, contributing causes, and traffic control device conditions, we aim to derive insights to enhance road safety and traffic management.

# Crash Records by Month

Crash Records by Month displays the number of car crash records reported each month over the analyzed period. It helps identify seasonal trends and patterns in crash incidents.

# Crash Records by Day of Week

Crash Records by Day of Week illustrates the distribution of car crash records by the day of the week. Analyzing crash frequency by weekdays and weekends can reveal insights into traffic patterns and potential contributing factors.

# Crash Records by Hour of the Day

Crash Records by Hour of the Day showcases the number of car crash records reported during different hours of the day. Understanding peak hours of crash occurrences can inform targeted interventions for traffic management.

# Primary Contributory Cause

The distribution of primary contributory causes of car crashes it helps identify the most common factors contributing to accidents, guiding road safety initiatives.

# Secondary Contributory Cause

The distribution of secondary contributory causes of car crashes analyzing secondary causes provides additional insights into accident patterns and contributing factors.

# Traffic Control Device by Device Condition

Traffic Control Device by Device Condition visualizes the types of traffic control devices and their respective conditions at crash locations. Understanding the condition of traffic control devices can inform infrastructure improvements for enhanced road safety.



# Count of Injuries

Count of Injuries summarises injuries reported in car crash incidents. It provides a quick overview of the severity of injuries sustained in reported accidents.

- Fatal Injuries: 6
- Incapacitating Injuries: 9
- No Indication of Device: 38
- Non-Incapacitating Injuries: 18
- Not Evident from Report: 13
- Unknown Injuries: 2
- Total Injuries: 19

# Conclusion

We analyzed car crash records in Chicago using Power BI and found patterns in crash frequency, contributing factors, and areas for infrastructure improvement. This information can be used to make informed decisions and implement proactive measures to enhance road safety.

Thank You.....