

# Road Accident Dashboard Analysis

## Problem Statement:

The goal of this analysis is to assess road accident statistics by examining key metrics such as total casualties, fatal casualties, and casualties by vehicle type and road type. This analysis aims to reveal actionable insights to improve road safety, enhance policy-making, and understand accident dynamics.

## KPI Analysis:

- TOTAL CASUALTIES: 417,883
- FATAL CASUALTIES: 7,135 (1.71%)
- SERIOUS CASUALTIES: 59,312 (14.19%)
- SLIGHT CASUALTIES: 351,436 (84.10%)
- CASUALTIES BY VEHICLE TYPE:
  - CAR: 333,485 (79.80%)
  - TRUCK: 33,472
  - MOTORCYCLE: 33,672
  - BUS: 1,279
  - TRACTOR: 1,032
  - OTHER: 3,424

## Trend and Insights:

### Monthly Trends in Casualties:

Analysis of the monthly trend comparing casualties in 2021 and 2022, highlighting any significant changes or patterns.

### Casualties by Road Type:

- SINGLE CARRIAGEWAY: 309.7K
- DUAL CARRIAGEWAY: 67.4K
- ROUNDABOUT: 26.8K
- ONE-WAY STREET: 7.4K
- SLIP ROAD: 4.7K

## Casualties by Road Surface:

- DRY: 279,445
- WET: 115,261

## Casualties by Location/Area:

- RURAL: 255.9K
- URBAN: 162.0K

## Casualties by Light Conditions:

- DAYLIGHT: 305.0K
- DARK: 112.9K

## Visualizations:

Line graph comparing 2021 and 2022 casualties on a monthly basis.

Breakdown of casualties by vehicle type, road type, road surface, location, and light conditions using bar charts and pie charts.