

# Car Accident Analysis

## Project Overview

This project provides an in-depth analysis of car accident trends using **Tableau Public**. The dataset covers accident numbers from 2019 to 2022 and categorizes incidents by **urban vs. rural areas** and **road types**. The goal is to identify patterns and recommend actionable solutions to reduce accidents.

## Key Findings

### 1. Overall Accident Trend

- The number of accidents has been **steadily decreasing** from 2019 to 2022.
- This indicates **improvements in road safety measures** or changes in traffic regulations.

### 2. Urban vs. Rural Accidents

- Urban areas consistently report higher accident numbers than rural areas.
- The decline in urban accidents is more pronounced, suggesting city-based interventions may be more effective.

### 3. Road Type and Casualties

- **Single carriageways** account for the **highest** number of casualties.
- **Slip roads** and **roundabouts** have significantly fewer casualties, indicating they are safer road designs.

## Actionable Recommendations

1. **Improve Safety on Single Carriageways**
  - Implement **speed limits** and **strict enforcement**.
  - Increase the use of **dividers and barriers**.
2. **Enhance Urban Road Safety**
  - Expand public transport to reduce **vehicle congestion**.
  - Deploy **AI-powered traffic control** to manage peak traffic more efficiently.
3. **Leverage Safer Road Designs**
  - Increase **roundabouts** and **slip roads** where feasible.
  - Promote better signage and **smart traffic signals**.