

❖ **Requirements:**

Client wants to create a Road Accident Dashboard For year 2021 and year 2022 so that they can Have insights on the below requirement.

1. Primary KPI - Total casualties and Total Accident values for Current Year and YoY growth
2. Primary KPI's - Total casualties by Accident Severity for Current Year and YoY growth
3. Secondary KPI's - Total casualties with respect to vehicle type for Current Year
4. Monthly trend showing comparison of casualties for Year and Previous Year.
5. Casualties by Road type for Current Year.
6. Current Year casualties by Area/Location and by Day/Night.
7. Total casualties and Total Accidents by Location.

➤ **Steps Covered :**

- ✓ Data Extraction: Gathering Data Website
- ✓ Data Cleaning: Removing Blank, Duplicates & relevant Data.
- ✓ Data Understanding: Data Modeling for Insights using Pivot.
- ✓ Data processing: Creating New Attributes for better analysis of data.
- ✓ Data Visualization: Interactive Dashboard with KPI, Trends & Slicer.

➤ **Key Insights from the Dashboard:**

1. In Year 2023 casualties is less as compared to Previous Year 2022.
2. Accidents through Car is responsible for 79% of all accidents across all Vehicle Types.
3. Fatal casualties are 1.7% which is more common on Two wheeler vehicle.
4. 62% Accidents occurred in Urban Locations/Area
5. Almost 74% of Accidents occurred in Daylight.
6. Accidents Cause due to Single Carriageway road type is more than other road types
7. Around 82% Accidents occurred due to High Winds Weather Conditions
8. Dry Road contributes 278051 of Casualties in comparison to Wet and Snowy/Icy Road which 114818 & 22701 of Casualties respectively.

