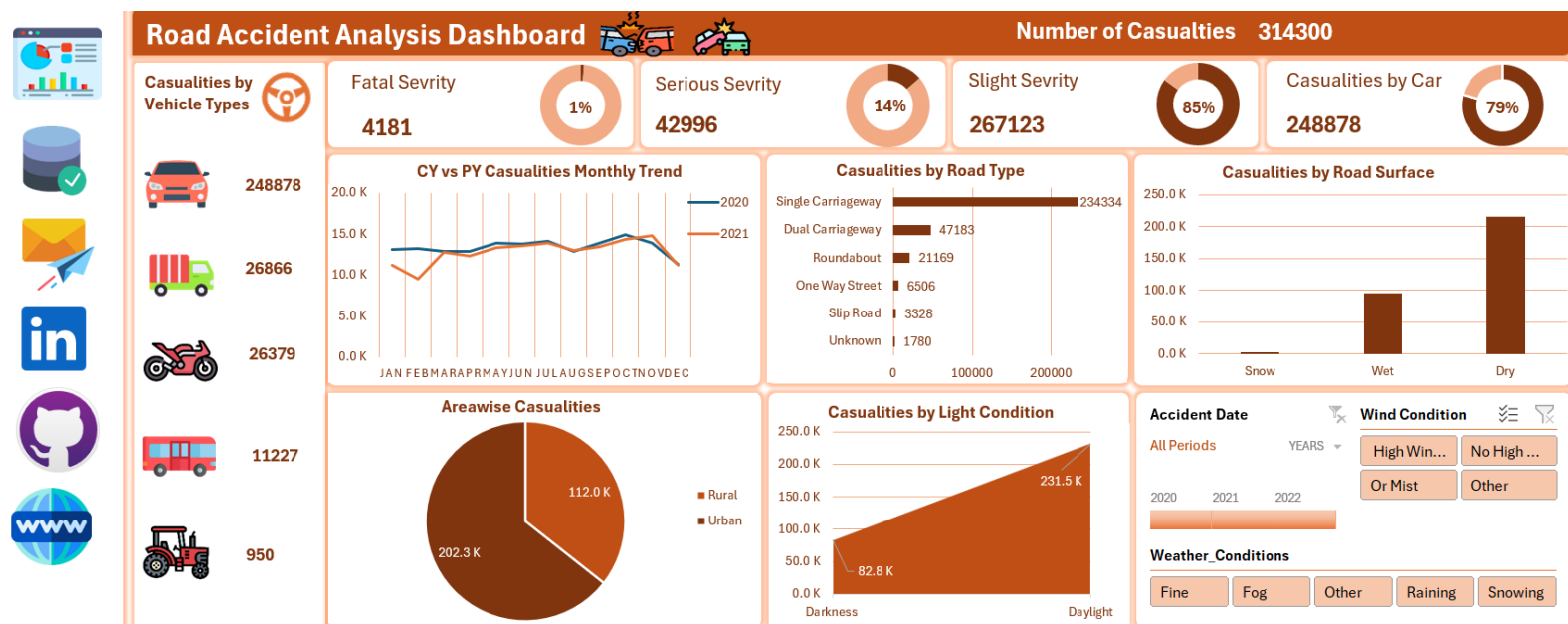


Road Accident Dashboard Document (Excel-Based)



Purpose of the Dashboard

This dashboard is created to **analyse and visualize road accident data** across different factors such as accident severity, vehicle type, road type, lighting condition, and area type (urban/rural). It helps in identifying patterns and supporting data-driven decision-making for road safety initiatives.

Step-by-Step Structure to Build the Dashboard

PART 1: Primary KPIs Section

What we are making:

Visual blocks with key performance indicators (KPIs) to give a quick summary.

🔧 KPIs to Create:

1. **Total Casualties**
2. **Fatal Casualties (Severe Deaths)**
3. **Serious Casualties (Critical Injuries)**

4. Slight Casualties (Minor Injuries)

5. Casualties by Cars

Visualizations:

- Use **number cards** (big bold values)
 - Add **donut charts** (Data Labels ON, No Legends, % formatting)
 - Insert **icons or shapes** to visually represent each KPI
-

PART 2: Secondary KPIs – Casualties by Vehicle Type

What we are making:

A summary of casualties grouped by type of vehicle.

Vehicle Groups:

- Cars
- Motorcycles
- Buses
- Trucks
- Tractors

Visualizations:

- Use **icon + label** combinations (SmartArt or manual shapes)
 - Add small **number cards** below or beside each icon
 - Use **shapes or images** of vehicle types from Excel Icons or Insert → Pictures
-

PART 3: CY vs PY Casualty Trend (Monthly)

What we are making:

A line chart comparing current year (CY) vs previous year (PY) month-wise data.

Visualizations:

- Use **Line Chart**
 - X-axis: Month names (Jan to Dec)
 - Y-axis: Casualty numbers
 - Use two series: one for 2021, one for 2022
 - Add **Data Labels and Legend**
-

PART 4: Casualties by Road Type

What we are making:

Compare accident counts across different road types.

Visualizations:

- Use **Horizontal Bar Chart**
 - Categories: Single carriageway, Dual carriageway, Roundabout, One-way, Slip road, etc.
 - Sort by descending order
-

PART 5: Casualties by Road Surface Condition

What we are making:

Show how many casualties occurred on dry, wet, or snow-covered roads.

Visualizations:

- Use **Column Chart**
 - Categories: Dry, Wet, Snow/Ice
-

PART 6: Urban vs Rural Casualties

What we are making:

Compare how many accidents happened in Urban vs Rural areas.

Visualizations:

- Use **Pie Chart**
 - Two categories: Urban, Rural
 - Highlight with contrasting colors (e.g., brown vs light beige)
-

PART 7: Light Condition Analysis (Day vs Night)

What we are making:

Determine when most accidents happen — during daylight or darkness.

Visualizations:

- Use **Area Chart**
- Categories: Daylight, Darkness

- Show both count and percentage
-

PART 8: Filter Panel

What we are making:

Interactive panel to filter data based on:

1. **Urban or Rural**
2. **Years (2021, 2022, 2023)**
3. **Day of Week (Mon–Sun)**

Visualizations:

- Use **Slicers** (Insert > Slicer from Pivot Table)
 - Style them with custom colors matching your theme
-

PART 9: Linked Image Navigation

What we are making:

Clickable icons that navigate to the dataset or pivot pages.

How to do it:

1. Insert image or icon (Insert > Icons or Pictures)
 2. Right-click > Link > Place in this Document > Select Sheet (e.g., Dataset)
 3. Add a small hover effect using formatting
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Data Setup Recommendation

- Use **Pivot Tables** behind all visuals
 - Store raw data in one clean sheet (RoadAccidentData)
 - Name your ranges or use Excel Tables
 - Use helper columns (e.g., Year, Month, Light, Road Type Group) for better analysis
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