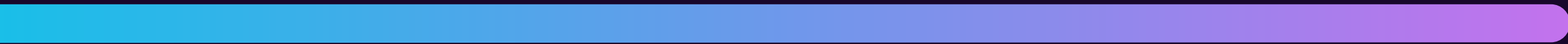# ROAD ACCIDENT DASHBOARD

Project Objective

This Excel dashboard that provides valuable information on "Road accidents" with respect to attributes like Type of Vehicle, Road Condition,Surface, Urban /Rural Area, Speed and Day/ Night scenario.

Key Performance Indicators (KPI'S)

This dashboard offers key performance indicators and valuable insights into road accident. Some of the features are mentioned below:

1   **Total Casualties Analysis**

2   **Casualties by Severity and Vehicle Type**

3   **Casualties by Vehicle Type**

4   **Monthly Trend Analysis**

5   **Road Type Analysis**

6   **Casualties Distribution by Road Surface**

7   **Casualties Relation by Area/Location and Day/Night**

Process Followed

Step1:Data Extraction

This step involves gathering data from Kaggle.

Step2:Data Cleaning

Removing Blank, Duplicates & Irrelevant Data.

Step3:Data Understanding

Data Modeling for Insights using Pivot.

Step4:Data Manipulation

Creating New Attributes for better analysis of data.

Step5:Data Visualisation

Interactive Dashboard with KPI,Trends,Hyperlink, Slicer(Filter).

Key Insights

1   Accidents through Car is responsible for 80% of all accidents across all Vehicle Types.

2   74% of Accidents are encountered in Single Carriageway

3   Ironically Dry Road contributes 67% of Casualties compared to Wet and Snowy/Icy Road, which has 28% & 5% respectively.

4   73% of Accidents occurred in Daylight.

5   63% of Casualties happen in urban areas as compared to rural areas.

THANK YOU

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