

Road Accident Dashboard

Introduction

In this project, I have developed an Excel report showcasing a comprehensive car accident dashboard. The primary aim of this project is to analyze car accident data to provide meaningful insights and facilitate informed decision-making. The dashboard includes interactive charts and graphs, allowing users to explore various aspects of car accident statistics effectively.

Key Steps in the Project:

1. **Data Cleaning:** The initial raw data often contains inconsistencies, missing values, and errors. I performed thorough data cleaning to ensure the dataset's accuracy and reliability. This step involved handling missing data, correcting inaccuracies, and standardizing formats.
2. **Data Preprocessing:** After cleaning the data, I undertook data preprocessing to transform the dataset into a suitable format for analysis. This included normalization, encoding categorical variables, and feature engineering to enhance the data's analytical value.
3. **Creating Pivot Tables:** Using the preprocessed data, I created pivot tables to summarize and aggregate the information. These tables form the backbone of the dashboard, providing a structured and organized view of the data, which is essential for creating dynamic and interactive visualizations.
4. **Interactive Charts and Graphs:** Leveraging the pivot tables, I designed a series of interactive charts and graphs. These visual elements offer a clear and intuitive representation of the data, enabling users to identify trends, patterns, and critical insights related to car accidents.

The resulting Excel report not only provides a detailed overview of car accident statistics but also empowers users to drill down into specific details through interactive elements. This project demonstrates the power of data analysis and visualization in uncovering valuable insights from complex datasets.



Road Accident Dashboard

Total Casualties: **417882**

Fatal Casualties:

7135

Serious Casualties:

5931

Slight Casualties:

351435

Urban_or_Rural_Area

Rural

Urban

(blank)

Casualties by Vehcile Type



333484



33472



12798



1032

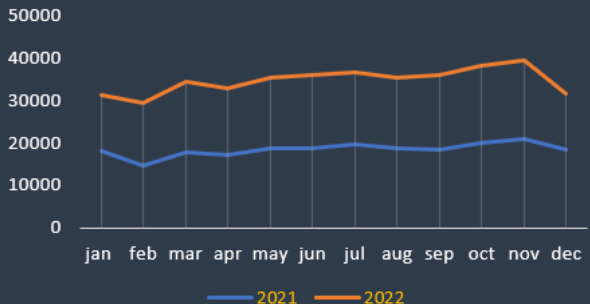


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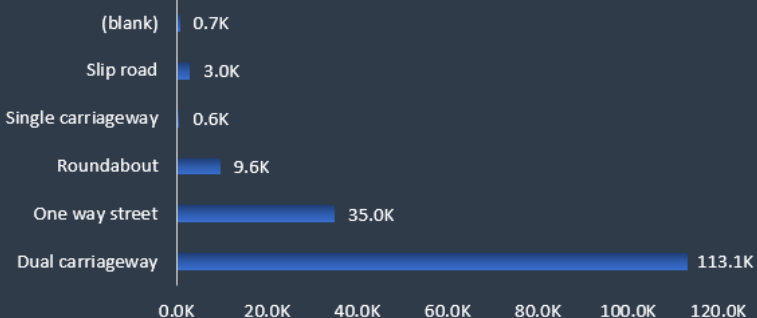


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CY Casualties vs PY Casualiteis Monthly Trend



Casualties by Road Type



Accident Date

All Periods

MONTHS

2021

MAR

APR

MAY

JUN

JUL

Casualties by Location/Area



Rural

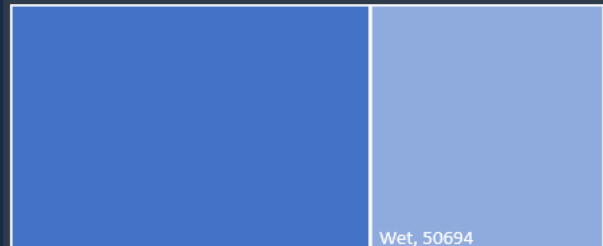
Casualties by Light Condition



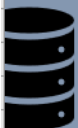
Daylight

Dark

Casualties By Road Surface



Wet, 50694



Fatal Casualties:

7135

Serious Casualties:

5931

Slight Casualties:

351435

Urban_or_Rural_Area

Rural

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(blank)



Casualties by Vehicle Type



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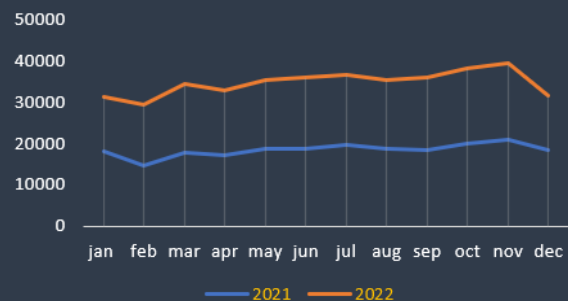


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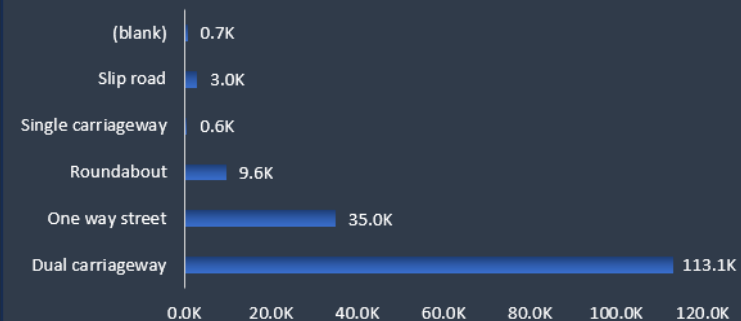


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