**REPORT ON DATA ANALYSIS OF ROAD SAFETY**

**TEAM NAME:**

**TEAM MEMBERS:**

**DATE:**

**ABSTRACT:**

This study helps us to understand the data and gain insights pattern and relationship between attributes of warning and time speed of the vehicles we found that in overall alter,headway monitoring warning where occupy around 57% with 12328 alters and lane departure hold next most of 30% with 6431 which describe the moctal the warning where alter in the highway and central area of domain such as southern grand trunk road and Anna salai. the starting point of the initiation of traffic starts in the Vandalur Zoological Park Area

**INTRODUCTION:**

From the understanding of the dataset that provided to analysis.The road safety alter tat collected from the on road events from AI based ADAS devices which helps us to alter the collision between vehicles.

The challenge we faced is the fund the pattern and high traffic alert area because that area are safety need to be focussed. This need of data cleansing and transformation and cleansing were done using the Microsoft excel.

We also used the Tableau software for Data Visualization to understand the data spread and variation with various plot such as bubble plot,scatter plot,hechmap,etc..

For geographical Analysis,we use Kepler.gl for gaming the insights of the alter area with respective latitude and longitude.

**DATA SOURCE:**

In the dataset,We have

i) FCW-Forward Collision Warning

ii) PCW-Pedestrain Collision Warning

iii) LDW- Lane Departure Warning

iv) HMW- Headway Monitoring Warning

we also have column of the data of the event, latitude ,and longitude of the event that occurred.

With that data ,we can able to derive the insight of the traffic alert area.

**ANALYSIS**

**on the data analysis of the dataset , we have second insight with total count of 21325.**

**FORWARD COLLOSION**

In the where vehicle type 5339,holds 204 count and vehicle 805 hold 158 count and 2846 vehicle with count of 2846 with the total of 509 count of vehicle.which contain maximum speed of 63 and average speed of 38 km/hr and holds 270 of the total count.

**HEADWAY MONITORING**

In headway monitoring ,where vehicle type 805 vehicle holds 6875 count; major in it and next to the vehicle 5339 holds 5842 and vehicle 2846 hold 5886 count.which contain maximum speed of 64 km/hr and average of 35 km/hr and 57% of the total count.

**PEAK TIME : Cresent college vandalur diverage into the count southern trunk and another one to annasalai -CEG-Chennai.**

**LANE MONITORING**

On the lane monitoring, where vehicle 806 holds count of 247 count arnd vehicle type 805 holds 2052 count and total of 6431 count . The maximum speed 65 km/hr and the average speed of 50.9 km/hr and holds 30% of the total count.

**PEDESTRIAN WARNING**

In pedestrian warning vehicle [5339] holds count of 707 and vehicle type of [805] has count of 438 and vehicle type [2846] has count of 378.

The maximum speed of 61 km/hr and average speed of 18 km/hr and holds 9% of the total alerts.

**LA**