

ROAD ACCIDENT 2021 / 2022

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INTRODUCTION

ACCIDENTS MAINLY OCCURS DUE TO THE FAULT OF THE DRIVER OR THE PERSON WHO IS DRIVING THE VEHICLE AS A RESULT OF BAD ROAD, OVER SPEEDING, DRIVING WITHOUT WEARING HELMET, DRIVING WITHOUT WEARING SEATBELT, AND DRIVING WITHOUT FOLLOWING TRAFFIC RULES, WHICH RESULT IN DEATH, INJURIES, PERMANENT IMPAIRMENTS, STRAIN AND INFLUENCE TO THE ENVIRONMENT.



AIMS AND OBJECTIVES

THE ONLY AIM AND OBJECTIVE OF THIS PROJECT IS TO SAVE AT LEAST SOME OF THE 1.2 MILLIONS KILLED IN ROAD ACCIDENTS EVERY YEAR



METHODOLOGY

THE DATASET USED FOR THIS ANALYSIS WAS TAKING FROM AN ONLINE SOURCE [KAGGLE.COM DATASETS] WHICH WAS CLEANED AND PROCESSED AND IS USED TO PERFORM THE ANALYSIS USED IN THIS PRESENTATION



KEY QUESTIONS

- **WHAT ARE THE TOTAL CASUALTIES AND RELATIONSHIP BETWEEN THE YEAR 2021 AND 2022?**
- **WHAT IS THE MAXIMUM CASUALTY BY ROAD TYPE?**
- **WHAT IS THE DISTRIBUTION OF TOTAL CASUALTY BY ROAD SURFACE?**
- **WHAT IS THE TOTAL CASUALTIES AND PERCENTAGE OF TOTAL WITH RESPECT TO ACCIDENT SEVERITY AND MAXIMUM CASUALTY BY TYPE OF VEHICLE?**
- **WHAT IS THE RELATIONSHIP BETWEEN CASUALTIES BY AREA AND BY DAY/NIGHT?**



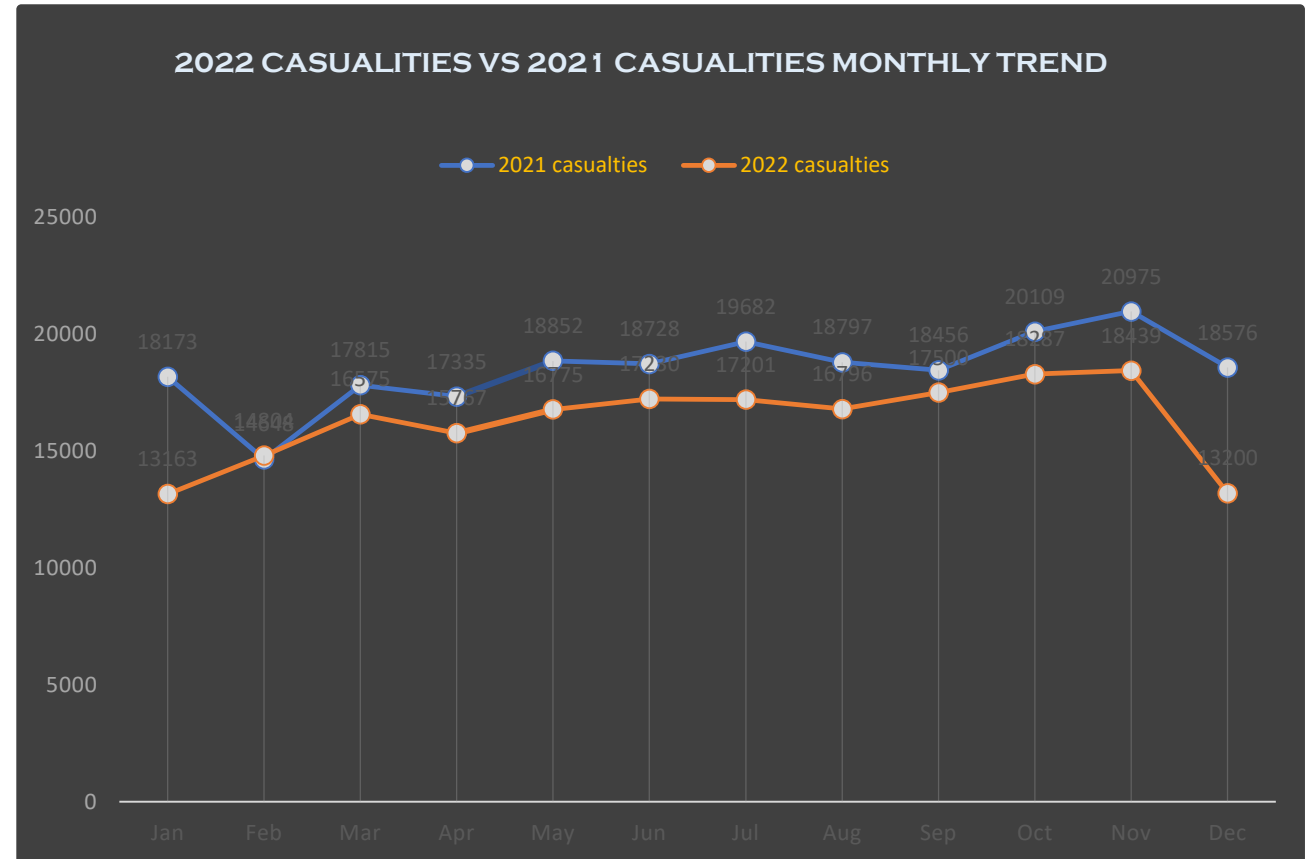
FINDINGS AND INSIGHTS



WHAT IS THE TOTAL CASUALTIES AND RELATIONSHIP BETWEEN THE YEAR 2021 AND 2022?

THE ANALYSIS SHOWS THAT THERE IS A RELATIONSHIP BETWEEN 2021 CASUALTIES AND 2022 CASUALTIES , IN WHICH THE YEAR 2021 HAS THE HIGHEST CASUALTIES OF ABOUT 20,109 IN THE MONTH OF OCTOBER BUT DROPS TO 14,648 IN FEBRUARY AND FROM THEN THE TREND DID NOT SHOW CONSISTENT DROP IN CASUALTIES TILL DECEMBER 2021 WITH ABOUT 18,575 CASUALTIES.

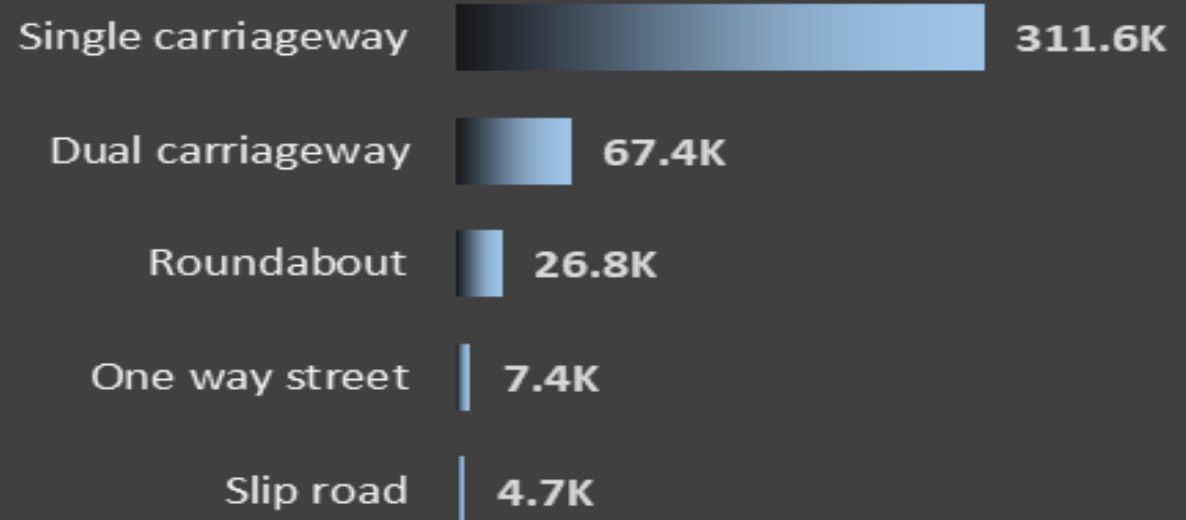
FROM DECEMBER 2021 THE CASUALTIES HAVE DROPPED INTO THE YEAR 2022 AND BY DECEMBER WE HAVE 13,200 WHICH SHOWS SIGNIFICANT DROP IN CASUALTIES.



WHAT IS THE MAXIMUM CASUALTY BY ROAD TYPE?

THE HIGHEST CASUALTY RECORDED BY THE TYPE OF ROAD IS 311.6K ON A SINGLE CARRIAGE ROAD TYPE, ACCIDENT LIKELY OCCUR ON A SINGLE CARRIAGE ROAD DUE TO HOW NARROW THE ROAD IS AND ARE MOSTLY CROSSED BY VICTIMS WITHOUT WATCHING.

CASUALTIES BY ROAD TYPE



WHAT IS THE DISTRIBUTION OF TOTAL CASUALTY BY ROAD SURFACE?

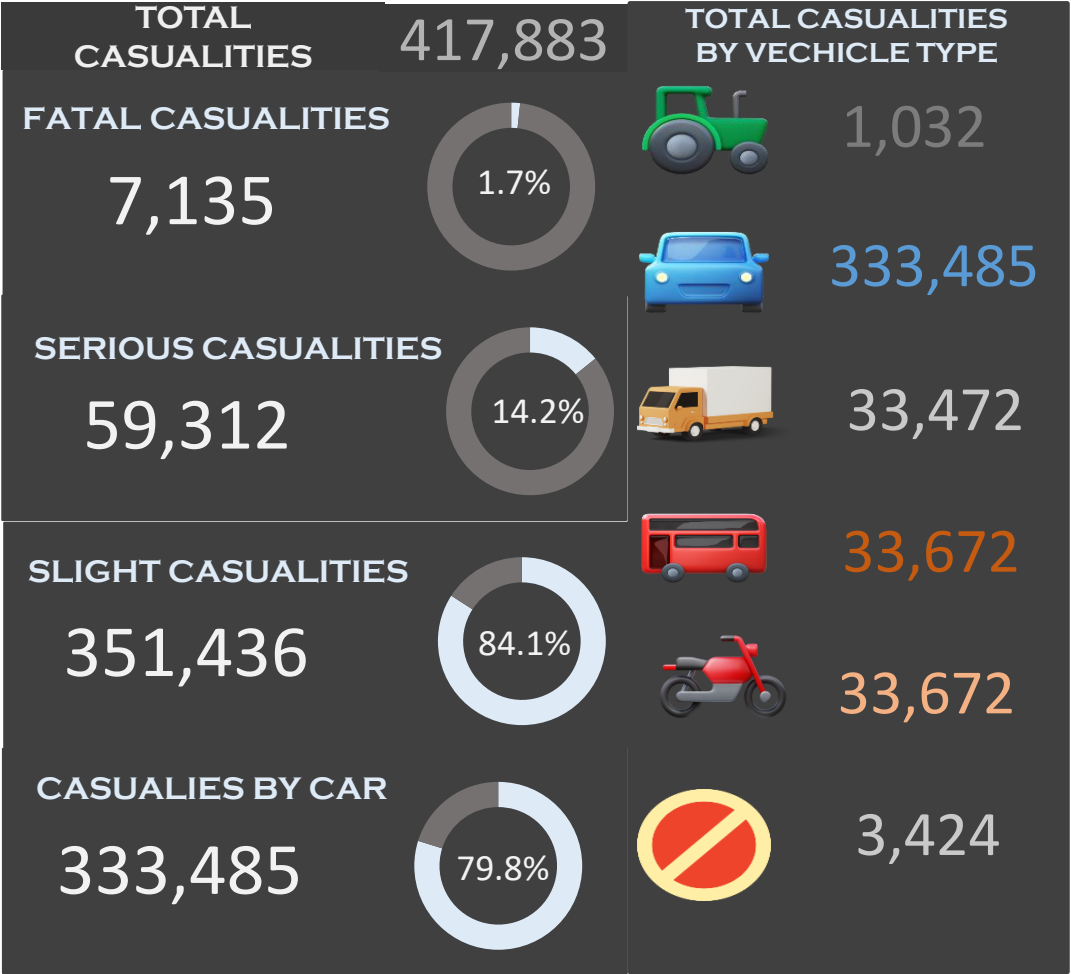
ANALYSIS SHOWS THAT WE HAVE HIGH ACCIDENT ON THE DRY ROAD SURFACE WITH ABOUT 279.8K THAN THE WET OR SNOW/ICE ROAD SURFACE. THIS IS BECAUSE CARS AND OTHER SYSTEM OF ROAD TRANSPORT MOSTLY USE DRY ROAD IN TRANSPORTATION AND WITH NO CONSIDERATION IN SPEED LIMIT

CASUALTIES BY ROAD SURFACE



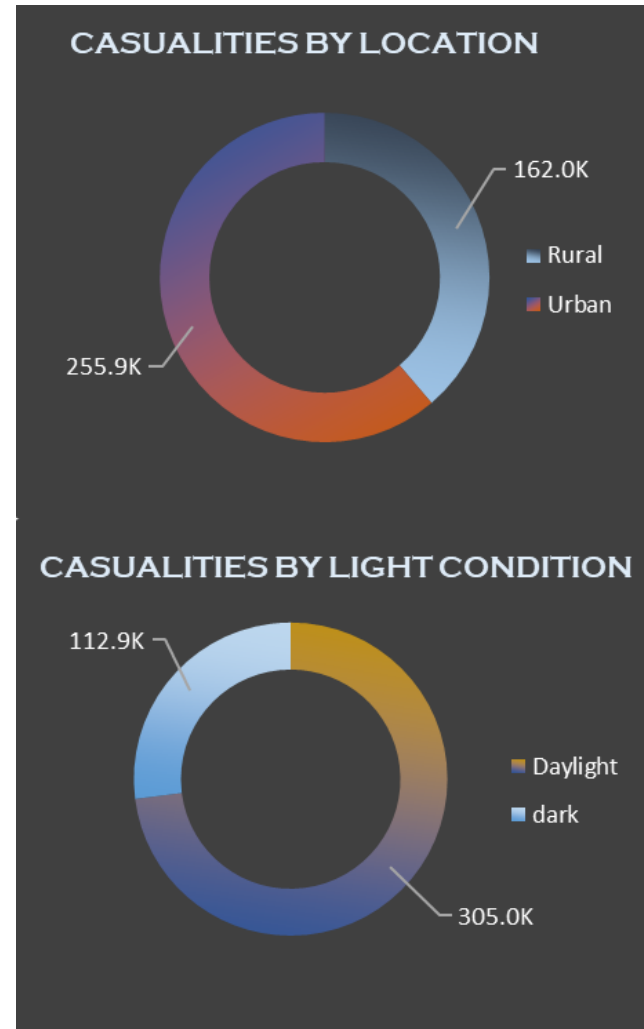
WHAT IS THE TOTAL CASUALTIES AND PERCENTAGE OF TOTAL WITH RESPECT TO ACCIDENT SEVERITY AND MAXIMUM CASUALTY BY TYPE OF VEHICLE?

TOTAL CASUALTIES IS 417,883 BUT THE CASUALTIES THAT WERE FATAL IS 7,135 WHICH IS 1.7% OF THE TOTAL CASUALTIES, AND SERIOUS CASUALTIES IS ABOUT 14.2%, SLIGHT CASUALTIES HAS 84.1% WHERE AS CASUALTIES BY CAR HAS 79.8%. THIS SHOWS THAT MOST OF THE CASUALTIES IN ROAD ACCIDENT COMES FROM CARS AND THE SEVERITY IS SLIGHT AND NOT FATAL.

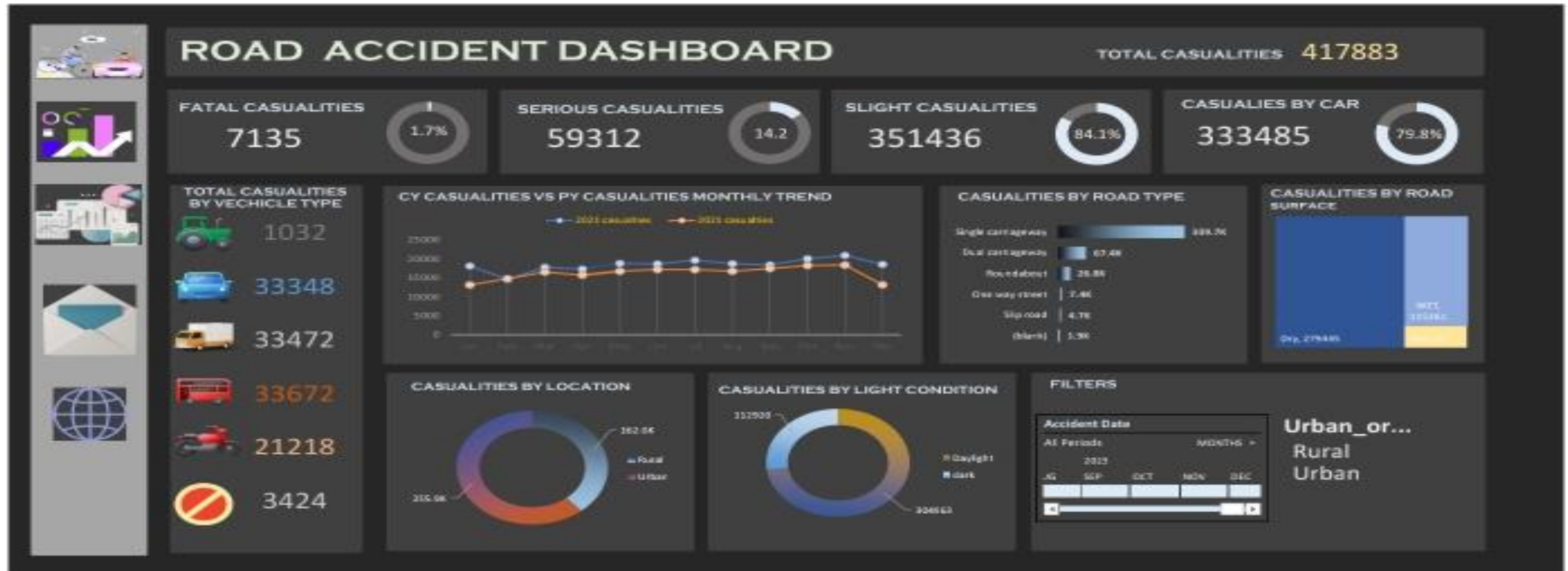


WHAT IS THE RELATIONSHIP BETWEEN CASUALTIES BY AREA AND BY DAY/NIGHT?

THE RELATIONSHIP HERE IS THAT THE MAJORITY OF THE ACCIDENTS HAPPENED DURING THE DAY AND MOSTLY IN THE URBAN PART OF THE COUNTRY BECAUSE CASUALTIES IN THE DAY LIGHT IS ABOUT 305K COMPARE TO NIGHT WITH 112.9K. ALSO LOOKING AT THE LOCATION YOU WILL DISCOVER CASUALTIES IN URBAN IS 255.9K AND RURAL HAS 162K THIS IS BECAUSE RURAL AREAS HAS NO GOOD ROADS COMPARE TO URBAN AREAS.



SUMMARY



IN SUMMARY EVERYTHING IS VISIBLE FROM THE DASHBOARD I CREATED WHICH ALLOWS YOU TO HAVE AN OVERVIEW OF EVERYTHING AND ALSO CHECK ANALYSIS BASE ON ACCIDENT DATE AND YEAR USING FILTERS PROVIDED IN THE DASHBOARD.



RECOMMENDATION AND CONCLUSION

- **IN RECOMMENDATION THERE SHOULD BE STRICT PUNISHMENT BY TRAFFIC ENFORCERS IF SPEED LIMIT OR TRAFFIC LAWS ARE BROKEN FOR EACH ROAD.**
- **INCREASE RADAR AND POLICE CARS SHOULD BE PLACED AT JUNCTIONS TO KEEP A CLOSE EYE ON SPEED LIMIT AND THE USE OF TRAFFIC LIGHT AT ALL TIME BY DRIVERS.**
- **PROVIDE INCREASED AWARENESS AND GOVERNMENT SHOULD WIDEN/DUALIZE ROADS, CONSTRUCT OVERPASS/UNDERPASS TO LESSEN TRAFFIC CONGESTION AROUND THE URBAN REGIONS.**
- **IN CONCLUSION, DRIVING IS NOT AN EASY TASK, ITS LIKE DRIVING YOUR OWN LIFE IT NEED CONCENTRATION AND UNDIVIDED ATTENTION. WITH THIS IT IS SURE THAT THOUSANDS OF LIFE CAN BE SAVED EVERY YEAR IF THE RECOMMENDATIONS ARE IMPLEMENTED NOT ONLY THE COUNTRY BUT WORLDWIDE BECAUSE SAVING LIFE MATTERS AND IF AT LEAST ONE LIFE CAN BE SAVED, THAT WILL BE A GREAT SUCCESS.**



THANK YOU

