FATAL ROAD ACCIDENTS

<ins>PROJECT IRIS</ins>

- "Alert today – Alive tomorrow Safety is not automatic, think about it."

Safety on roads is often spoken about but is largely ignored. Road safety has always been a complex and multifaceted issue. But despite many factors leading to fatal and non-fatal road injuries, the evidence identifies that, in the context of a safe systems approach, various risk factors consistently increase the risk for road injuries and deaths at a population level. There is a dire need to address these concerns, especially since an estimated 500-700 people die every day on Indian roads. Close to 1·4 million people die each year, and up to 50 million are injured by RTIs.

Our idea is developing a machine learning model and an app to predict the likelihood of a road accident based on factors such as weather conditions, time of day, condition of road and location. To reduce the number of accidents it is important to understand the factors that contribute to their occurrence. So, our potential approach to this problem is to develop a machine learning model and accompanying app that can predict the likelihood of a road accident based on above mentioned factors.

The machine learning model would be trained on a large dataset of historical accident data, which would include information on the various factors that may have contributed to the accident. This could also include data on weather conditions, time of day, location, and other relevant variables. The model would use this data to learn patterns and correlations between these factors and the likelihood of an accident occurring. Once trained, the model could then be used to predict the likelihood of an accident occurring in real-time, based on the current weather conditions, time of day, and location. This information could be made available to users through an app, which would allow them to make informed decisions about their travel plans and take steps to reduce their risk of being involved in an accident. Overall, this approach has the potential to significantly reduce the number of road accidents and save lives, by providing users with the information they need to make safer travel choices.

This app mainly focuses on road safety measures like improving infrastructures of roads by the reviews of users, promoting the use of safety devices like helmets, seat belts and use of car seats for children, encouraging the use of public transport.