**Project Outline**

The distracted driver detection machine learning project is an effort to develop a reliable and automated system for detecting drivers who are distracted on the road. Distracted driving is a serious problem that contributes to a significant number of accidents on the road each year. Drivers who are distracted by things such as texting, eating, or using their phones while driving are at a higher risk of collisions, which can result in severe injuries or even fatalities.

**Purpose**

The purpose of this project is to develop a machine learning-based system for distraction driver detection. The project aims to address the increasing concern of road accidents caused by distracted drivers by providing an automated solution that can accurately detect and classify distracted driving behaviour in real-time. The ultimate goal is to improve road safety by alerting drivers and authorities about potential distractions, thereby reducing the number of accidents and promoting responsible driving habits. Additionally, this project can contribute to the advancement of autonomous driving systems and driver assistance technologies by integrating distraction detection capabilities into these systems.