Wipro's Driver Monitoring System

Introduction

Driver inattentiveness is a major cause of accidents worldwide. The problem is compounded with the advent of feature rich cockpits driven by the adoption of Level 2 and Level 3 autonomous driving systems.

Wipro's Driver Monitoring System (DMS) is a smart dash camera based solution to recognize drivers and monitor their behavior to check for the level of attentiveness. It is a robust solution that applies computer vision for a wide range of driver and passenger monitoring applications. The solution leverages artificial intelligence to measure, keep track of movements and extrapolate the occupants attentiveness from the observations gathered.

Key Takeaways

- Leverage Wipro's robust Driver Monitoring System to improve your end customers' safety, across all vehicle segments
- Create novel in-cabin experiences for your end customer by leveraging Wipro's state of the art computer vision and deep learning capabilities

Expandable to wider applications of in-cabin passenger monitoring

Key Benefits

Enhanced safety for drivers and passengers

High accuracy algorithm designed to function irrespective of gender, race, age, or presence of accessories such as shades or hats

Robust algorithm to monitor driver behavior and draw attention in case of hazardous driving conditions. The system is designed to enable corrective action when working with higher levels of autonomy

Trainable algorithm to handle custom use cases as required across vehicle segments

Personalized driver experience

Integrate personalization modules such as facial recognition, emotion recognition and predictive analytics with the software to create inimitable driving experiences for your customers

Accelerator for higher levels of autonomy

Customize and integrate the Driver Monitoring System with our other off the shelf solutions for unique use cases of mapping driver behavior with external environment monitoring

Features

Robust Algorithm- High accuracy algorithm that functions irrespective of gender, race, age etc

Diverse Applications - Monitors for distractions including texting, drowsiness, drinking, operating the radio & fatigue

Custom Use Cases - Trainable algorithm backed by OTA

Onboard Computation - Real time monitoring levraging on-board computing

Easy Integration - Real time monitoring levaraging on-board computing

Real time video analysis to monitor driver behavior for inattentiveness with robust algorithms to work with a wide range of dash cameras

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