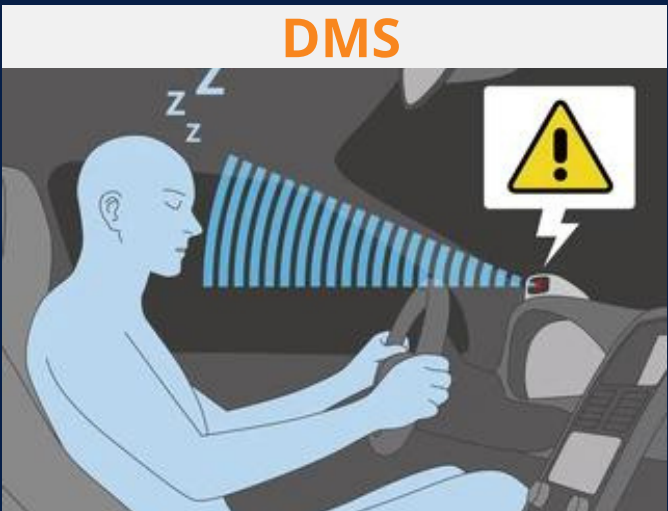
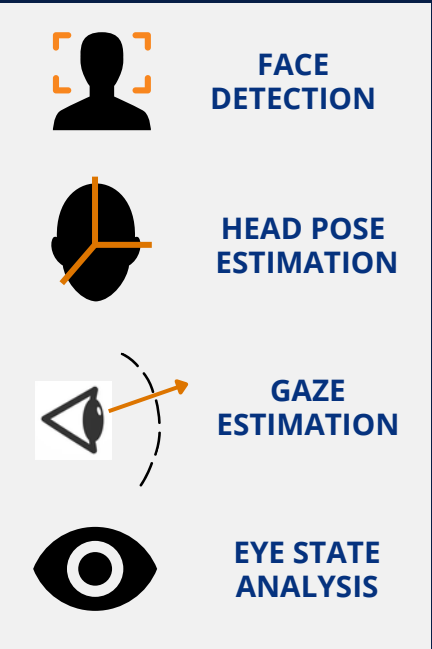


4 WAYS AI IS TRANSFORMING DRIVER SAFETY AND COMFORT

1 DRIVER DROWSINESS AND DISTRACTION DETECTION

DMS FOR DRIVER STATE MONITORING

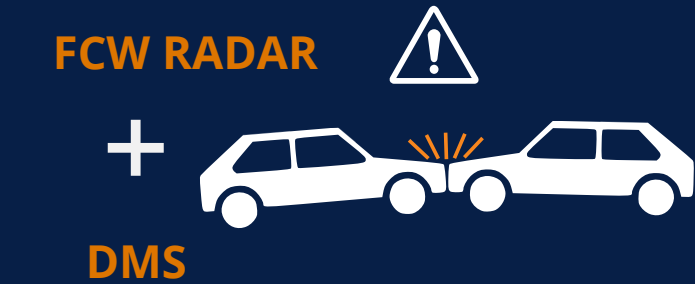
DRIVER MONITORING SYSTEM (DMS) app triggers alerts to the driver in case of drowsiness detection and other distractions



BODY KEYPOINT TRACKING keeps an eye on how the driver interacts with objects or the interfaces of the vehicle



EARLY WARNING SYSTEM VITAL SIGN DETECTION



Late fusion on multi-modal data streams to increase the reaction time of the driver

EMBEDDING MMWAVE technology in the driver seat helps with detecting vital signs



2 IN-CABIN OCCUPANCY DETECTION



RADAR SYSTEM in the cabin can detect even the faintest breathing movement in humans



CHILD OCCUPANCY DETECTION AND WARNING SYSTEM

Sends out warning signal if a child is trapped or left unattended

MINIMIZING OCCUPANT INJURIES DURING COLLISIONS

Sensor detect strength of a collision and maximize occupant protection



3 IN-CABIN NOISE SUPPRESSION



USE OF AI IN AUDIO PROCESSING

Improves speech to noise ratio (SNR)

DEEP LEARNING MODEL

Deep learning model trained on multiple noise profiles



4 ANALYSING ROAD CONDITIONS FOR ROAD SAFETY USING SMART PUBLIC INFRASTRUCTURE



REAL-TIME DETECTION OF ROAD CONDITIONS



AI BASED PREDICTION helps drivers to gauge their routes to avoid congestion or hazards



ROAD CONSTRUCTION



VEHICLE CRASHES



MONITORING SPEED LIMITS



ROAD CLOSURES