

# MOBILITY

S.No	Problem Statement	Why This Problem Matters (Description)
1	Personalized Driving Profiles <input checked="" type="checkbox"/>	Adjusts vehicle response based on user profile, improving comfort, control, and adaptability in different driving styles.
2	Driving Habit Feedback Coach <input checked="" type="checkbox"/>	Offers subtle suggestions or summaries post-drive to help users improve eco-driving, reduce stress, or avoid risky behavior.
3	Gamification of Safe Driving <input checked="" type="checkbox"/>	Encourages better habits by rewarding safe turns, speed control, and predictive awareness through points or social scores.
4	Smart Insurance Monitoring System <input checked="" type="checkbox"/>	Creates real-time risk profiles using AI to help insurers reward safer drivers and help others learn.
5	AI Dashcam Analytics for Risk Detection <input checked="" type="checkbox"/>	Real-time video processing alerts drivers about dangerous maneuvers or road behavior, while also helping in insurance cases.
6	Crowdsourced Pothole & Hazard Detection App <input type="checkbox"/>	Uses accelerometer/GPS from multiple drivers to automatically detect and report potholes, flooded roads, or construction zones.
7	AI-Powered Traffic Violation Predictor <input type="checkbox"/>	Uses behavioral pattern data to predict the likelihood of overspeeding, signal skipping, or rash turns — and proactively prevents them.
8	Autonomous EV Charging Slot Optimizer <input type="checkbox"/>	AI-based system that manages EV charging slots across a city to reduce wait times, balance grid load, and prioritize urgent users.
9	Real-Time Emotion Detection System for Drivers <input type="checkbox"/>	Monitors facial expressions and driving patterns to detect drowsiness, anger, or distraction, and issues timely alerts.
10	AI Assistant for Navigation in Complex Urban Areas <input type="checkbox"/>	Provides context-aware rerouting suggestions based on congestion, mood, or recurring delays — not just shortest path.

1 1	<b>Multi-Modal Transit Smart Planner</b> <small>NEW</small>	Integrates ride-sharing, metros, buses, and micro-mobility (bikes/scooters) into one AI-optimized daily commute planner.
1 2	<b>Pedestrian Safety Enhancer using Edge AI</b> <small>NEW</small>	Smart cameras or car sensors detect pedestrian motion intent (e.g., sudden crossing) to pre-warn the driver or autonomous system.
1 3	<b>AI for Vehicle Health Prediction &amp; Maintenance Planner</b> <small>NEW</small>	Predicts upcoming part failures or low-performance areas based on driving and engine sensor data.
1 4	<b>Sustainable Route Recommender System</b> <small>NEW</small>	Not just fastest — suggests eco-friendly routes based on terrain, stoplights, traffic, and driving history.
1 5	<b>Smart Parking Availability Visualizer with Forecasting</b> <small>NEW</small>	Predicts and displays future parking space availability in urban areas using past data and current crowd levels.