**Project List:-**

**Hand gestures:**

1. In-Car Gesture-Based Infotainment Control:

* Developing a gesture-recognition system to control infotainment features like audio, navigation, and calls within a vehicle.

1. Window and Sunroof Control

* Enables drivers to use hand gestures to open or close windows and control the sunroof, minimizing distractions and enhancing user comfort.

**ADAS:**

1. Adaptive Headlight Control System:

* Automatically adjust the vehicle's headlights based on road conditions

**V2X communication:**

1. Emergency Vehicle Priority System (V2I)
2. Road Hazard Warning System (V2I, V2V)

**Computer vision related project (detection, recognition, etc.)**

**Predictive Maintenance Using IoT and Machine Learning:**

1. Creating dashboard displaying the health status of components.

* This project involves using IoT sensors and machine learning algorithms to monitor the health of machine components. The data is displayed on a dashboard

Related links:

https://www.birlasoft.com/articles/ai-use-cases-in-automotive-industry

https://www.cloud4c.com/blogs/15-ai-use-cases-in-the-automotive-industry

Roboflow user guide:

https://docs.roboflow.com/