

## **CHAPTER 1**

# **INTRODUCTION**

### **1.1. Problem Statement**

Automatic road sign detection and tracking is an important task in a driver assistance system. Its importance lies mainly on the vast amount of car accidents that happen each year all over the world, caused by the driver's inability to process all the visual information they receive while driving. Road signs characterized by colour and shape are primarily for guiding, warning, and regulating car drivers. Each colour and shape of the road signs conveys a particular meaning.

Accidents occur frequently in highways, which will create a heavy loss for the victim's families as well as for the society. Mainly accidents occur due to the unawareness of the driver about the obstacles that may be present on the highway routes.

### **1.2. The Solution**

This project is developed in the vision of preventing accidents in the highways. A prior intimation is given to the driver about the obstacles present in the highways such as steep curve, bends, bridges, temporary work on progress etc. to avoid mishaps.

### **1.3. Objectives of Project**

The following are the objectives of the proposed work.

- To avoid Mishaps.
- To avoid traffic violations.
- To control Speed of the vehicles.
- To use in school, hospital areas etc.