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A SMART DETECTOR FOR SPEED BUMP AND ROAD UNCERTAINITY

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Abstract - Roadside potholes are dangerous and jeopardise the security of both automobiles and pedestrians. It is one of the main causes of traffic accidents, which result in the loss of life and property, in the majority of developing nations. It is necessary to continuously gather and update information on the most recent road conditions so that drivers can be encouraged to take detours and the responsible government agency can act quickly to fix potholes for the benefit of commuters. Using the following criteria, determine the road damage percentage: a pothole's depth. Roadway's number of potholes. A user who is logged in to our portal can upload an image of a road and its associated location (which may include the road name). Road signs are important to ensure smooth traffic flow without bottle necks or mishaps. Road symbols are the pictorial representations having different necessary information required to be understood by driver. Road signs in front of the vehicle are ignored by the drivers and this can lead to catastrophic accidents.

***Key Words*:** pathol, traffic, catastrophic, road, sign, driver.

1. INTRODUCTION

Road signs give out a number of messages regarding the road and what you as a driver should expect on the road. They keep the traffic flowing freely by helping drivers reach their destinations and letting them know entry, exit and turn points in advance. Pre-informed drivers will naturally avoid committing mistakes or take abrupt turns causing bottlenecks

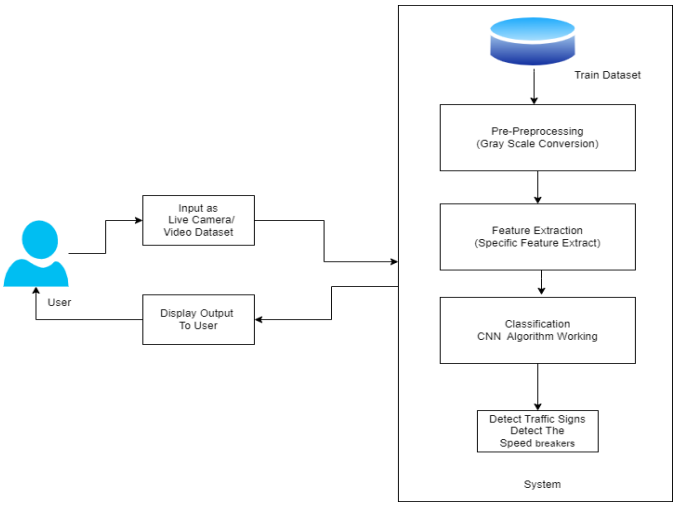

Fig -1: Figure

3. CONCLUSIONS

we propose a Detector system which have two modules first is road pathole detection and another is traffic sign detection detects and recognizes traffic signboard from video stream input and gives voice message to the driver. By using this technology we can reduce the road accidents as well as regulate traffic safely. a system that is able to detect and classify a set of 28 traffic signs in different environments. The main contribution of the project is a novel attention based coupled framework for road and pothole segmentation. For both structured and unstructured driving environments, the framework performs well in terms of road segmentation. We explore few-shot learning for pothole detection to attain reasonable accuracy with fewer labelled samples.

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