### ROAD POTHOLE PREDICTION USING CNN

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### ABSTRACT

Potholes are one of the extreme classes of road damage which can not only cause misalignment of the vehicles from their intended path but also damage vehicle structure and components. Both of these can lead to accidents. The damage caused is also dependent on the speed of the vehicle. Therefore it becomes necessary to avoid them which calls for their detection. This project is to train a Deep Learning algorithm capable of classifying images of different Road Pothole, such as a alphabet letter, and numeric A comparison of the proposed and current algorithms reveals that the accuracy hand gesture types classification based on CNNs is higher than other algorithms. It is predicted that the success of the obtained results will increase if the CNN method is supported by adding extra feature extraction methods and classify successfully fruits types on image. The problem statement can be given as follows. This system consists of two components one is mobile node and other is the access point. Access points responsible for storing the information about potholes in its vicinity, taking the feedback from vehicles, updating the information in repository and broadcasting the information to other vehicles.