# Pothole Detection System using Ultrasonic Sensor

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**Abstract***: This project aims to develop a tool for predicting accurate and timely traffic flow information. Traffic environment has everything that can affect the traffic flowing on the road, whether it's traffic signals, accidents, rallies, even repairing of roads that can cause a jam. If we have prior information which can affect traffic then, a driver or rider can make an informed decision. Currently, traffic data is exponentially generating every day and thus we have moved towards the big data concepts. The available traffic prediction models are unsatisfactory to handle real world applications. This fact inspired us to work on the traffic flow forecast problem build on the traffic data and models. In this project, we planned to use machine learning, genetic and deep learning algorithms to analyze the big-data for the transportation system with much-reduced complexity. Also, Image Processing algorithms are used in traffic sign recognition, which eventually helps for the right training of autonomous vehicles.*

**Keywords:** Lung Disease, X-ray, Deep Learning, Pneumonia, Tuberculosis, Lung Disease.