

ABSTRACT

Road Surface Analysis and classification

TEAM NUMBER: CSEBNUM_I04

A smooth road surface leads to Happy Journey where a rough road surface leads to frustration of the driver and wastage of valuable travel time and fuel. Proper road maintenance measures like maintaining the needed men and machinery leads to a smooth surface. Other factors like road curvature and road type(like Ghat road) effects the road surface in long run. This project aims to use probabilistic machine learning models trained on dataset containing factors like climatic conditions, materials used, curvature of road, road length, road width, banking information, maintenance factors like people at work etc, to predict the health of the road. This can be used in predicting roads lifespan with a specific material set and features. Trained machine learning model can be used in applications like google maps to predict navigation path by considering the road conditions.

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