PROBLEM STATEMENT :-

In Today’s world with so many cars, models in the market, it is hard to find out which car has a high maintenance cost/index that is authentic source.

• Problem statement in Description

o System that shows the health and Maintenance Index of various components of car models or car parts based on multiple factors

o This will help new buyers to understand the maintenance costs of a certain model and probability of which car part requires more often servicing /change, OEM’s to understand which part is requiring frequent change and needs to be recalled and made better in the new models

o Vehicle maintenance patterns across car models by mileage, usage, age of the vehicle, regional patterns across dealers, service stations and car manufacturer

• Purpose and who will benefit

o Consumers so they know which car has a higher maintenance and maintenance index.

o Car Manufacturers, so they know which parts are getting serviced often based on the part change

• How does it help the nation

o Better understanding for consumers on which car to purchase with low Vehicle Maintenance Index

o Govt has better understanding of car maintenance index before approving cars on the Road (ARAI Authority)

• Practical and reasons why this idea could be a challenge from Implementation

o Data Challenge: Build a dealer/service station network, OEM, consumers who can feed data into the system – without data this solution will not work

o Ability to integrate this solution easily with the current systems which can collate the data

o Marketing challenge: Owner within the Govt to take this ahead and invest this product

o Political: OEM’s might not want such a system to be developed.

• Domain Bucket

o Transport, Vehicles

• Technology Bucket

o Integration across systems – Integration platform across systems with security model for data extraction o Analytics & Data Science (if possible) – Bigdata/Hadoop, AI / ML o Data Aggregation

o Visualization

SOLUTION :-