

ASSIGNMENT -2

Team- 14

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Introduction:

Research and development in electric vehicle sector is very important now as it is the only sector which can reduce large amount of pollution and also save fossil fuels from depletion. Infrastructure such as charging stations still needs to be built out for wide spread adoption. When looking for simple datasets on Evs, there don't seem to be any. Also, given the growth in this market creating the project on electric vehicle datasets to determine the efficiency, acceleration, ranges, top speed, charging related issues are gaining the importance in present situation.

Project Objective: To analyze the performance parameters of the Electric Vehicle manufactured by different companies.

Some basic performance task to check in for electric vehicles in this project:

1. Which car has fastest acceleration?
2. Which has the highest efficiency?
3. Top speed of the vehicle
4. Which manufacturer has the most number of the vehicles?
5. Type of Plugging
6. Which vehicle has fastest charging facility?

About the Datasets: The datasets contains the information on performance parameters of the electric vehicles like brand, vehicle model, acceleration, top speed of the vehicle, range in km, efficiency, rapid charging facility present or not type of the plug used.

Benchmark:

- Importing Packages and data.
- Investigation of Data Analysis.
- Using different algorithms of machine learning.
- Building the model and comparing the test data using training data sets and finding the best operating system with all parameters considered.
- Comparison with different models of machine learning and choosing the best one.

Expected Date of Project Completion: 10th May 2021