**Model Development Phase**

|  |  |
| --- | --- |
| Date | 16 july 2024 |
| Team ID | 740033 |
| Project Title | Car Performance Prediction |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| **Engine Size** | Manufacturer of the car | Yes | Directly impacts power and fuel efficiency. |
| **Horsepower** | Engine power output | Yes | Critical for performance analysis. |
| **Torque** | Rotational force of the engine | Yes | Influences acceleration and towing capacity.. |
| **Fuel Type** | Type of fuel used (petrol, diesel, electric, etc.) | Yes | Determines fuel efficiency and emissions |

|  |  |  |  |
| --- | --- | --- | --- |
| **Weight** | Weight of the vehicle | Yes | Influences acceleration, handling, and fuel efficiency |
| **Mileage** | Total distance traveled | Yes | . Indicates wear and tear affecting performance. |
| **Emission Ratings** | Environmental impact rating | Yes | Relevant for regulatory compliance and eco-friendliness. |