What I have done in First submission: (30/11/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 33 | 30 |  | 11 |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT |  |  |  |  |
| RF |  |  |  |  |
| AdaBoost |  |  |  |  |
| Gradient Boost |  |  |  |  |
| XGBoost |  |  |  |  |

What I have done in Second submission: (30/11/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.
2. Extract the age of the car
3. Categorize rating into 1,2,3,4,5
4. Extract state from RTO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 65 | 64 |  | 11 |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT | 93 | 65 |  |  |
| RF | 87 | 76 |  |  |
| AdaBoost | 75 | 64 |  |  |
| Gradient Boost | 77 | 72 |  |  |
| XGBoost | - | - |  |  |

What I have done in Third submission: (30/11/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.
2. Extract the age of the car
3. Categorize rating into 1,2,3,4,5
4. Extract state from RTO
5. Extract car model

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 54 | 50 |  |  |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT |  |  |  |  |
| RF |  |  |  |  |
| AdaBoost |  |  |  |  |
| Gradient Boost |  |  |  |  |
| XGBoost |  |  |  |  |

What I have done in Fourth submission: (30/11/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.
2. Extract the age of the car
3. Categorize rating into 1,2,3,4,5
4. Extract state from RTO
5. Extract car model
6. Delete car model and try different hyper parameter tuning

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 64 | 60 |  |  |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT |  |  |  |  |
| RF |  |  |  |  |
| AdaBoost |  |  |  |  |
| Gradient Boost | 75 | 70 |  |  |
| XGBoost |  |  |  |  |

What I have done in Fifth submission: (1/12/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.
2. Extract the age of the car
3. Categorize rating into 1,2,3,4,5
4. Extract state from RTO
5. Extract car model
6. Categorize based on car company
7. Categorize based on kilometers run

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 64 | 60 |  |  |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT |  |  |  |  |
| RF |  |  |  |  |
| AdaBoost | 75 | 70 |  |  |
| Gradient Boost |  |  |  |  |
| XGBoost |  |  |  |  |

What I have done in Sixth submission: (1/12/24)

Train Data: (32158,11)

Feature Engineering:

1. Extract car company name.
2. Extract the age of the car
3. Categorize rating into 1,2,3,4,5
4. Extract state from RTO
5. Extract car model
6. Categorize based on car company
7. Categorize based on kilometers run
8. Categorize based on price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Train r2 | cv | Good/ Bad | columns |
| Linear Regression | 64 | 60 |  |  |
| KNN | - | - | - | - |
| SVM | - | - | - | - |
| DT |  |  |  |  |
| RF |  |  |  |  |
| AdaBoost | 75 | 70 |  |  |
| Gradient Boost | 88 | 83 |  |  |
| XGBoost |  |  |  |  |