|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model Name | No of features | MSE(mean squared error) | RMSE(Root mean squared logarithmic error) | R squared | Cross validation  Score(k=10) |
| Simple Linear Regression Model | 4 | 0.120447 | 0.347055 | 0.56516  56.5% | 0.56703  56.7% |
| Complex Linear  Regression Model | 11 | 0.070523 | 0.265562 | 0.74540  74.5% | 0.74726  74.7% |
| Ridge regression model  Alpha=0.05 | 11 | 0.070640 | 0.26578 | 0.744978  74.5% | 0.746627  74.66% |
| **Polynomial regression**  **degree=2** | 11 | **0.063654** | **0.252298** | 0.770199  **77.0%** | 0.765150  **76.5%** |
| Polynomial  Regression  Degree=3 | 11 | 0.074978 | 0.27382 | 0.729319  73.0% | - |
| Ridge Regression  Alpha=1 | 84 | 0.05199 | 0.22802 | 0.81228  81% | - |
| Lasso  Regression  Alpha=0.01 | 84 | 0.06989 | 0.26438 | 0.747662  74.7% | - |