Computer Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Model | R Squared Value | RMSE | Alpha |
| Multiple Linear Regression | 0.77556 | 275.1298 |  |
| Ridge Regression | 0.67872 | 329.177 | 0.4 |
| Lasso Regression | 0.77554 | 275.144 | 0.01 |
| Multiple Linear Regression (removing index 1440, 1700) | 0.777 | 271.0453 |  |
| Multiple Linear Regression (removing index 1440, 1700, 9, 24, 27) | 0.780 | 271.033 |  |

50\_Startups:

|  |  |  |  |
| --- | --- | --- | --- |
| Model | R Squared Value | RMSE | Alpha |
| Multiple Linear Regression | 0.95075 | 8854.761 |  |
| Ridge Regression | 0.888136 | 13345.318 | 0.4 |
| Lasso Regression | 0.95075 | 8854.761 | 0.01 |
| Multiple Linear Regression (removing index 45 , 46, 48 , 49) | 0.963 | 6737.64 |  |

Toyota Corolla:

|  |  |  |  |
| --- | --- | --- | --- |
| Model | R Squared Value | RMSE | Alpha |
| Multiple Linear Regression | 0.86376 | 1338.258 |  |
| Ridge Regression | 0.8306 | 1492.27 | 0.4 |
| Lasso Regression | 0.8637 | 1338.25 | 0.01 |
| Multiple Linear Regression (removing index 80) | 0.869 | 1308.49 |  |
| Multiple Linear Regression (removing index 80 , 46, 48 , 49) | 0.885 | 1227.47 |  |