**To find Machine learning regression method using R2 value**

1.**Multiple Linear Regression** – R2 value –0.9358

2.**SVM** –

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **R\_score** | **C=0.01** | **C=1** | **C=10** | **C=100** |
| linear | 0.8950 | -0.05746 | -0.0569 | -0.039 | 0.1064 |
| rbf | -0.0574 | -0.05748 | -0.0574 | -0.05680 | -0.05072 |
| poly | -0.5710 | -0.05748 | -0.05710 | -0.0536 | -0.01980 |
| sigmoid | -0.0572 | -0.0574 | -0.05720 | -0.05420 | -0.0304 |

3.**Decision Tree**

|  |  |  |
| --- | --- | --- |
| **criterion** | **splitter** | **R\_score** |
| Squared error | Best | 0.9177 |
| Friedman\_mse | Best | 0.8995 |
| Absolute error | Best | 0.9464 |
| poisson | Best | 0.7386 |
| Friedman\_mse | Random | 0.8937 |
| Absolute error | Random | 0.8694 |
| poisson | Random | 0.3226 |
| Squared error | Random | 0.8266 |