Different Machine learning Regression methods to find r2 values

1. Simple Linear Regression:

R2 Value: 0. 97409934

1. Multiple Linear Regression:

R2 Value: 0.9358680

1. Support Vector Machine:

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| --- | --- | --- | --- | --- | --- |
| S.NO | Hyper Parameter | R2 Value | | | |
| Linear | RBF | Poly | Sigmoid |
| 1 | C10 | -0.0396 | -0.05680 | -0.05366 | -0.054719 |
| 2 | C100 | 0.10646 | -0.05072 | -0.019802 | -0.03045 |
| 3 | C500 | 0.59289 | -0.02432 | 0.11468 | 0.07057 |
| 4 | C1000 | 0.78028 | 0.006768 | 0.266163 | 0.18506 |
| 5 | C2000 | 0.87677 | 0.06751 | 0.4810 | 0.3970 |
| 6 | C3000 | 0.89567 | 0.12322 | 0.637 | 0.59136 |

In SVM regression R2 value is best for kernel Linear (C=3000): 0.89567