# Hyper Parameters Accuracy

## SVM: (50 Startups.csv - Dataset)

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| --- | --- | --- | --- | --- | --- |
| **SNO.** | **C Value** | **LINEAR (R value)** | **RBF (R value)** | **POLY (R value)** | **SIGMOID (R value)** |
| 1 | 10 | -0.0396 | -0.0568 | -0.0536 | -0.0547 |
| 2 | 100 | 0.1064 | -0.0507 | -0.0198 | -0.0304 |
| 3 | 1000 | 0.7802 | 0.0067 | 0.2661 | 0.1850 |
| 4 | 2000 | 0.8767 | 0.0675 | 0.4810 | 0.3970 |
| 5 | 3000 | 0.8956 | 0.1232 | 0.6370 | 0.5913 |

## Decision Tree: (50 Startups.csv - Dataset)

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| --- | --- | --- | --- | --- |
| **SNO** | **CRITERION** | **MAX\_FEATURES** | **SPLITTER** | **R Value** |
| 1 | squared\_error | sqrt | *best* | 0.6048 |
| 2 | squared\_error | sqrt | *random* | 0.7101 |
| 3 | squared\_error | log2 | *best* | 0.7769 |
| 4 | squared\_error | log2 | *random* | 0.9069 |
| 5 | squared\_error | None | *best* | 0.9256 |
| 6 | squared\_error | None | *random* | 0.9131 |
| 7 | *friedman\_mse* | sqrt | *best* | 0.6514 |
| 8 | *friedman\_mse* | sqrt | *random* | 0.8440 |
| 9 | *friedman\_mse* | log2 | *best* | 0.7030 |
| 10 | *friedman\_mse* | log2 | *random* | 0.4008 |
| 11 | *friedman\_mse* | None | *best* | 0.9164 |
| 12 | *friedman\_mse* | None | *random* | 0.8621 |
| 13 | *absolute\_error* | sqrt | *best* | 0.7800 |
| 14 | *absolute\_error* | sqrt | *random* | 0.7000 |
| 15 | *absolute\_error* | log2 | *best* | 0.5652 |
| 16 | *absolute\_error* | log2 | *random* | 0.5171 |
| 17 | *absolute\_error* | None | *best* | 0.9362 |
| 18 | *absolute\_error* | None | *random* | 0.8767 |
| 19 | *poisson* | sqrt | *best* | 0.3311 |
| 20 | *poisson* | sqrt | *random* | 0.1018 |
| 21 | *poisson* | log2 | *best* | 0.6239 |
| 22 | *poisson* | log2 | *random* | 0.7784 |
| 23 | *poisson* | None | *best* | 0.9179 |
| 24 | *poisson* | None | *random* | 0.6082 |