**Support Vector Machine Hyper Tuning**

| SL.NO | HYPER PARAMETER | LINEAR (r Value) | RBF(NON LINEAR) (r value) | POLY (r value) | SIGMOID (r value) |
|---|---|---|---|---|---|
| 1 | C = 0.1 | 0.919877839537963 | -0.12574 | -0.12474 | -0.12578 |
| 2 | C = 0.01 | 0.9206507519990003 | -0.12578 | -0.125680 | -0.12568 |
| 3 | C = 0.05 | 0.9219029754109285 | -0.12576 | -0.12526 | -0.12578 |
| 4 | C = 0.001 | 0.9198855074954021 | -0.12578 | -0.12577 | -0.12578 |
| 5 | C = 0.002 | 0.9199720772044082 | -0.12578 | -0.12576 | -0.12578 |
| 6 | C = 0.003 | 0.9200582612277998 | -0.12578 | -0.12575 | -0.12578 |

**Decision Tree Hyper Tuning**

| SL.NO | CRITERION | SLITTER | R VALUE |
|---|---|---|---|
| 1 | squared_error | Best | 0.853511123049459 |
| 2 | squared_error | random | 0.3637749788778386 |
| 3 | friedman_mse | Best | 0.8720473533037854 |
| 4 | friedman_mse | Random | 0.8639855501516843 |
| 5 | absolute_error | Best | 0.897282599307774 |
| 6 | absolute_error | Random | 0.8160246952426796 |
| 7 | poisson | Best | 0.8924631508168763 |
| 8 | Poisson | Random | 0.8737485436803155 |