Machine Learning Regressor

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| --- | --- | --- | --- |
|  | Predicted Value |  |  |
| Multiple Linear Regression | 0.789479035 |  |  |
|  |  |  |  |
| SVM |  |  |  |
| Sl.No | Kernel | C | Predicted Value |
| 1 | Linear | 100 | 0.54328182 |
| 2 | poly | 10000 | 0.352902406 |
| 3 | rbf | 10 | -0.081969104 |
| 4 | sigmoid | 0.1 | -0.089743519 |
| 5 | precomputed | 10 | No Value |
|  |  |  |  |
| Decision Tree |  |  |  |
| Sl.No | criterion | splitter | Predicted value |
| 1 | squared\_error | Best | 0.69436688 |
| 2 | friedman\_mse | Best | 0.686808315 |
| 3 | absolute\_error | Best | 0.661753485 |
| 4 | poisson | Best | 0.70985382 |
| 5 | squared\_error | Random | 0.689277291 |
| 6 | friedman\_mse | Random | 0.713360857 |
| 7 | absolute\_error | Random | 0.678391353 |
| 8 | poisson | Random | 0.731826501 |
|  |  |  |  |
| Random Forest |  |  |  |
| Sl.No | n\_estimators | criterion | Predicted value |
| **1** | **100** | **squared\_error** | **0.857002188** |
| 2 | 100 | friedman\_mse | 0.851422355 |
| 3 | 1000 | absolute\_error | 0.855482328 |
| 4 | 100 | poisson | 0.85450602 |

Best Model = Random Forest (n\_estimators-100, criterion- squared\_error,).