**Multiple Linear Regression :**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Standard Scaler** | **Accuracy** |
| 1 | No | 71 % |
| 2 | Yes | 79 % |

**Support Vector Machine Regression :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Kernel** | **Degree** | **C** | **Epsilon** | **Accuracy** |
| 1 | linear | 3 | 1000 | 0.1 | 71 % |
| 2 | linear | 3 | 10000 | 0.01 | 70 % |
| 3 | rbf | 3 | 10000 | 1e-3 | 88 % |
| 4 | rbf | 3 | 10000 | 1000 | 89 % |

**Decision Tree :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Creation** | **Splitter** | **Maximum Depth** | **maximum\_leaf\_node** | **Accuracy** |
| 1 | poison | best | 5 | - | 89 % |
| 2 | friedman\_mse | random | - | - | 78 % |
| 3 | friedman\_mse | best | 5 | - | 84 % |
| 4 | poison | best | 5 | 7 | 88 % |
| 5 | poison | best | 10 | 7 | 88 % |

**Random Forest :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **n\_estimators** | **creation** | **maximum\_depth** | **min\_sample\_split** | **min\_sample\_leaf** | **Accuracy** |
| 1 | 100 | poison | 7 | 5 | - | 89 % |
| 2 | 90 | friedman\_mse | 7 | 5 | - | 89.1 % |
| 3 | 95 | friedman\_mse | 5 | 5 | 3 | 91 % |
| 4 | 500 | squared\_error | 9 | 9 | - | 90 % |