**Machine Learning Regressor**

To assign Number of Algorithm

1.Multiple Linear Regression

|  |  |
| --- | --- |
| **Hyper Turning Parameter** | **Predicted Value** |
| 1.Linear | 0.935868097 |

2.Support Vector Machine

|  |  |  |
| --- | --- | --- |
| **Hyper Turning Parameter** | **Standardization** | **Predicted Value** |
| 1.kernel=Linear, C=0 | No | 0.895075645 |
| 2.kernel=Linear, C=0 | Yes | -0.055731363 |
| 3.kernel=RBF, C=0 | Yes | -0.057418394 |
| 4.kernel=Poly, C=0 | Yes | -0.057103875 |
| 5.kernel=Sigmoid, C=0 | Yes | -0.057209359 |
| 6.kernel=Precomputed, C=0 | Yes | No Value. its Matrix Algorithm  35x35, we have 35x5, it defines Column x Row |

3.Decesion Tree

|  |  |  |
| --- | --- | --- |
| **criterion** | **splitter** | **Predict Value** |
| squared\_error | best | 0.949478197 |
| friedman\_mse | best | 0.919967169 |
| absolute\_error | best | 0.940338191 |
| poisson | best | 0.899692963 |
| squared\_error | random | 0.447206791 |
| friedman\_mse | random | 0.907930607 |
| absolute\_error | random | 0.901093031 |
| poisson | random | 0.903393634 |

4.Random Forest

|  |  |  |  |
| --- | --- | --- | --- |
| **criterion** | **n\_estimators** | **random State** | **Predicted Value** |
|  |  |  |  |
| absolute\_error | 100 | 0 | 0.945909746 |
| squared\_error | 100 | 0 | 0.946004355 |
| friedman\_mse | 100 | 0 | 0.941270197 |
| poisson | 100 | 0 | 0.941388942 |