**SVM – Regression:**

|  |  |  |
| --- | --- | --- |
| **SVM - Regression** | | |
| **Kernel** | **C** | **R2 Score** |
| linear | 0.01 | 0.933538 |
| 0.1 | 0.937522 |
| 1.0 | 0.895078 |
| 10.0 | 0.895078 |
| 100.0 | -357.08 |
| rbf | 0.01 | -0.05749 |
| 0.1 | -0.05748 |
| 1.0 | -0.05742 |
| 10.0 | -0.05681 |
| 100.0 | -0.05073 |
| poly | 0.01 | -0.05748 |
| 0.1 | -0.05745 |
| 1.0 | -0.0571 |
| 10.0 | -0.05367 |
| 100.0 | -0.0198 |
| sigmoid | 0.01 | -0.05748 |
| 0.1 | -0.05746 |
| 1.0 | -0.05721 |
| 10.0 | -0.05472 |
| 100.0 | -0.03045 |
| precomputed | Precomputed matrix must be a square matrix. Input is a 35x5 matrix. | NA |

Decision Tree – Regression:

|  |  |  |
| --- | --- | --- |
| **Decision Tree Regression** | | |
| **criterion** | **splitter** | **r2\_score** |
| squared\_error | best | 0.908731 |
| squared\_error | random | 0.659403 |
| friedman\_mse | best | 0.893011 |
| friedman\_mse | random | 0.659403 |
| absolute\_error | best | 0.932962 |
| absolute\_error | random | 0.727554 |
| poisson | best | 0.913416 |
| poisson | random | 0.659403 |

|  |  |  |
| --- | --- | --- |
| **Random Forest - Regression** | | |
| **n\_estimators** | **criterion** | **R2\_Score** |
| 10 | squared\_error | 0.925277 |
| 50 | squared\_error | 0.944634 |
| 100 | squared\_error | 0.946004 |
| 150 | squared\_error | 0.94394 |
| 10 | absolute\_error | 0.928182 |
| 50 | absolute\_error | 0.940194 |
| 100 | absolute\_error | 0.94591 |
| 150 | absolute\_error | 0.939875 |
| 10 | friedman\_mse | 0.920668 |
| 50 | friedman\_mse | 0.938896 |
| 100 | friedman\_mse | 0.94127 |
| 150 | friedman\_mse | 0.942852 |
| 10 | poisson | 0.930487 |
| 50 | poisson | 0.946355 |
| 100 | poisson | 0.941389 |
| 150 | poisson | 0.938062 |

Final Model from Random Forest with Hypertuning parameters criterion is “Poisson” and n\_estimaters is 50 = 0.946355