|  |  |  |  |
| --- | --- | --- | --- |
| Regressor Model | SVM | Decision Tree | Random Forest |
| Best Parameter choosen | {'C': 3000, 'gamma': 'scale', 'kernel': 'poly'} | {'criterion': 'friedman\_mse', 'max\_features': 'sqrt', 'splitter': 'best'} | {'criterion': 'squared\_error', 'max\_features': 'sqrt', 'n\_estimators': 100} |
| R2\_Score | 0.8598930084494356 | 0.7245780173631842 | 0.8691580674051564 |
| Best\_Parameter for explicitly not splitting train and test | {'C': 1000, 'kernel': 'linear'}: | {'criterion': 'squared\_error', 'max\_features': 'log2', 'splitter': 'best'} | {'criterion': 'friedman\_mse', 'max\_features': 'log2', 'n\_estimators': 100} |
| Best\_Score for explicitly not splitting train and test | 0.6937782148821102 | 0.6828803061710793 | 0.8351132071756361 |

**Evaluation**

**Result:**

The best model according to the above evaluation is Random Forest with R2 Score 0.8691580674051564