Profit Prediction

**Find following the machine learning regression method using R2 value.**

**1.RandomForest**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **n\_estimators** | **criterion** | **max\_features** | **R2 value** |  |
| **1** | **50** |  |  | **0.9446** |  |
| **2** | **50** | **squared\_error** |  | **0.9446** |  |
| **3** | **50** | **squared\_error** | **sqrt** | **0.6830** |  |
| **4** | **50** | **friedman\_mse** | **sqrt** | **0.6889** |  |
| **5** | **50** | **friedman\_mse** | ***log2*** | **0.7676** |  |
| **6** | **150** | **friedman\_mse** | **auto** | **0.9428** |  |
| **7** | **50** | **friedman\_mse** | **auto** | **0.9388** |  |
| **8** | **50** | **poisson** | **auto** | **0.7862** |  |
| **9** | **150** | **poisson** | **auto** | **0.7962** |  |
| **10** | **150** | **poisson** | ***log2*** | **0.7131** |  |
| **11** | **50** | **poisson** | ***log2*** | **0.6641** |  |

The Random Forest Regression Using R2-Value=(n\_estimator=50)R2=0.9446