**R2\_score Value for insurance\_pre.csv file**

**Machine Learning (Regression)**

**HEERTHI RAJA H**

**ASSIGNMENT**

1. MULTIPLE LINEAR REGRESSION

R2\_score Value**= 0.7894**

1. SUPPORT VECTOR MACHINE

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| --- | --- | --- | --- | --- | --- |
| S.NO | HYPER PARAMETER | LINEAR (r value) | RBF  (r value) | POLY  (rvalue) | SIGMOID (r value) |
| 1. | C10 |  |  |  |  |
| 2. | C100 |  |  |  |  |
| 3. | C500 |  |  |  |  |
| 4. | C1000 |  |  |  |  |
| 5. | C2000 |  |  |  |  |
| 6. | C3000 |  |  |  |  |

The SVM Regression use R2 Value()=

1. Decision Tree

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | CRITERION | MAX FEATURES | SPLITTER | R2 VALUE |
| 1. |  |  |  |  |
| 2. |  |  |  |  |
| 3. |  |  |  |  |
| 4. |  |  |  |  |
| 5. |  |  |  |  |
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| 7. |  |  |  |  |
| 8. |  |  |  |  | |
| 9. |  |  |  |  | |
| 10. |  |  |  |  | |
| 11. |  |  |  |  | |
| 12. |  |  |  |  | |
| 13. |  |  |  |  | |
| 14. |  |  |  |  | |
| 15. |  |  |  |  | |

The Decision Tree Regression use R2 value()=

1. RANDOM FOREST

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| --- | --- | --- | --- | --- |
| S.NO | CRITERION | MAX FEATURES | N ESTIMATES | R2 SCORE VALUE |
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The Random Forest Regression R2value ( )=

The Final Machine Learning best method of Regression:

**Thank you!**